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Fractals ★ Fractals. (French) **89f:00046**
Philosophy of mathematics ★ Filozofia matematyki. (Polish) [Philosophy of mathematics] **89a:00033**
Women of mathematics ★ Women of mathematics. **89b:01071**

00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)

Stockhausen, Manfred ★ Mathematische Behandlung naturwissenschaftlicher Probleme. (German) [Mathematical treatment of problems in science] **89j:00003**

Items with secondary classifications in 00A06

Crowe, Michael J. Ten misconceptions about mathematics and its history. **89e:00018**
Moon, F. ★ Chaotic vibrations. **89h:58127**
Razumovskiĭ, O. S. ★ Экстремальные закономерности. (Russian) [Extremal regularities] **89e:00022**
Simon, William ★ Mathematical techniques for biology and medicine. **89h:92001**
Twizell, E. H. ★ Numerical methods, with applications in the biomedical sciences. **89h:65006**
Wille, Rudolf Bedeutungen von Begriffsverbänden. [Meanings of lattices of concepts] **89f:00040**

00A07 Problem books

Allouch, D. *see* **Weil, J.; et al., 89i:00014**
(Beran, Ladislav) *see* **Weil, J.; et al., 89i:00014**
Delorme, C. *see* **Weil, J.; et al., 89i:00014**
Deschamps, Cl. *see* **Ramis, E.; et al., 89f:00003**
(Germain, P.) *see* **Obala, J., 89i:00013**
Hocquemiller, J. *see* **Weil, J.; et al., 89i:00014**
Lavit, Christine *see* **Weil, J.; et al., 89i:00014**
Mézard, A. *see* **Weil, J.; et al., 89i:00014**
Obala, J. ★ Exercices et problèmes de mécanique des milieux continus. (French) [Exercises and problems in the mechanics of continuous media] **89i:00013**
Odoux, J. *see* **Ramis, E.; et al., 89f:00003**
Ramis, E. (*with* Deschamps, Cl.; Odoux, J.) ★ Algèbre. (French) [Algebra] **89f:00003**
Raoult, J.-C. *see* **Weil, J.; et al., 89i:00014**
Vaillant, J.-C. *see* **Weil, J.; et al., 89i:00014**
Weil, J. (*with* Hocquemiller, J.; Allouch, D.; Mézard, A.; Vaillant, J.-C.; Delorme, C.; Lavit, Christine; Raoult, J.-C.) ★ Rozpracovaná řešení úloh z vyšší algebry. (Czech) [Worked-out solutions for exercises in higher algebra] **89i:00014**

Items with secondary classifications in 00A07

Brannan, David A. (*with* Hayman, Walter) Research problems in complex analysis. **89m:30001**
Cacoullos, T. ★ Exercises in probability. **89k:60001**
(Conti, Franco) *see* **Steinhaus, Hugo, 89f:01095**
Hayman, Walter *see* **Brannan, David A., 89m:30001**
Kalmbach, Gudrun ★ Diskrete Mathematik. (German) [Discrete mathematics] **89m:00004**
Mauldin, R. Daniel (*with* Ulam, Stan) Mathematical problems and games. **89g:04005**
Prasolov, V. V. ★ Задачи по планиметрии. Часть I. (Russian) [Problems in plane geometry. Part I] **89j:51001**
Shneperman, L. B. ★ Курс алгебры и теории чисел в задачах и упражнениях. Часть 2. (Russian) [A course in algebra and number theory in problems and exercises. Part 2] **89i:00011**
Steinhaus, Hugo ★ Cento problemi di matematica elementare. (Italian) [One hundred problems in elementary mathematics] **89f:01095**
(Terreni, Brunello) *see* **Steinhaus, Hugo, 89f:01095**
Ulam, Stan *see* **Mauldin, R. Daniel, 89g:04005**

00A08 Mathematical recreation

Anichini, Giuseppe What is the probability of having the same birthday? (Italian) (Not in MR)
Dewdney, A. K. ★ The armchair universe. **89f:00004**
Eiss, Harry Edwin ★ Dictionary of mathematical games, puzzles, and amusements. **89d:00004**
(Escher, M. C.) *see* **Grünbaum, B.**, (**89m:00011**)
Eves, Howard W. ★ Mathematical circles revisited. **89g:00003**
— ★ Return to mathematical circles. **89j:00004**
Gardner, Martin ★ Riddles of the sphinx. **89i:00015**
— ★ Time travel and other mathematical bewilderments. **89b:00005**
— ★ Penrose tiles to trapdoor ciphers. **89m:00006**
Grünbaum, B. Mathematical challenges in Escher's geometry. (*see* **89m:00011**)
Hoffman, Paul ★ Archimedes' revenge. **89i:00016**
Kéri, Gerzson *see* **Rubik, Ernõ; et al., 89i:00017**
Klamkin, Murray ★ U.S.A. Mathematical Olympiads, 1972–1986. (Not in MR)
Marx, György *see* **Rubik, Ernõ; et al., 89i:00017**
Rubik, Ernõ (*with* Varga, Tamás; Kéri, Gerzson; Marx, György; Vekerdy, Tamás) ★ Rubik's cubic compendium. **89i:00017**
(Singmaster, David) *see* **Rubik, Ernõ; et al., 89i:00017**
Varga, Tamás *see* **Rubik, Ernõ; et al., 89i:00017**
Vekerdy, Tamás *see* **Rubik, Ernõ; et al., 89i:00017**
Yamamoto, Kazuko Temari workshop. (*see* **89m:00011**)

Items with secondary classifications in 00A08

Cervini, L. (*with* Farinato, R.; Loreto, L.) The interactive computer graphics (ICG) production of the 17 two-dimensional crystallographic groups, and other related topics. (*see* **89m:00011**)
(Coxeter, H. S. M.) *see* **Escher: art and science, 89m:00011**
(Emmer, M.) *see* **Escher: art and science, 89m:00011** *and* **Penrose, Roger**, (**89m:00011**)
Ernst, Bruno Escher's impossible figure prints in a new context. (*see* **89m:00011**)
(Escher, M. C.) *see* **Escher: art and science, 89m:00011**; **Shephard, G. C.**, (**89m:00011**); **Penrose, Roger**, (**89m:00011**) *and* **Versluis, Edward B.**, (**89m:00011**)
Farinato, R. *see* **Cervini, L.; et al.**, (**89m:00011**)
Loreto, L. *see* **Cervini, L.; et al.**, (**89m:00011**)
Nesterenko, Yu. V. *see* **Olekhnik, S. N.; et al., 89j:01032**
Olekhnik, S. N. (*with* Nesterenko, Yu. V.; Potapov, M. K.) ★ Старинные занимательные задачи. (Russian) [Old recreational problems] **89j:01032**
Pedersen, Jean Braiding Escher models. (*see* **89m:00011**)
Penrose, Roger Escher and the visual representation of mathematical ideas. (*see* **89m:00011**)
— *see also* **Escher: art and science, 89m:00011**
Potapov, M. K. *see* **Olekhnik, S. N.; et al., 89j:01032**
Quine, Willard Van Orman ★ Quiddities. **89b:00031**
Shephard, G. C. What Escher might have done. (*see* **89m:00011**)
Smullyan, Raymond M. Logicians who reason about themselves. **89b:03036**
(Teuber, Marianne) *see* **Escher: art and science, 89m:00011**
Versluis, Edward B. M. C. Escher's "likely impossibilities": using the beauty of mathematics to create the truth of art. (*see* **89m:00011**)

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Congress:
  Escher, M. C. ★ M. C. Escher: art and science. **89m:00011**
Escher: art and science ★ M. C. Escher: art and science. **89m:00011**
Rome ★ M. C. Escher: art and science. **89m:00011**

00A10 Collections of papers (miscellaneous content)

(Aĭzerman, M. A.) *see* **Investigations in the theory of structures, 89k:00005**
(Alimov, Yu. I.) *see* **Nonlinear problems in generalized functions, 89j:00019**
(Andersson, Å. E.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Avdonins, N.) *see* **Applied problems in mathematical physics, 89e:00003**
(Azbelev, N. V.) *see* **Boundary value problems, 89b:00008; 89c:00008** *and* **89c:00009**
(Barantsev, R. G.) *see* **Asymptotic methods, 89a:00002**
(Basharin, G. P.) *see* **Analysis of information-computing systems, 89a:00001**
(Beckmann, Martin J.) *see* **Contributions to applied mathematics and statistics, 89i:00018**
(Begmatov, A. B.) *see* **Methods for solving boundary value problems in applied mechanics and control, 89c:00022**
(Bel'tyukov, B. A.) *see* **Models and methods in operations research, 89j:00018**
(Berezanskiĭ, Yu. M.) *see* **Application of methods of functional analysis in problems of mathematical physics, 89b:00007**
(Bleuler, Konrad) *see* **Differential geometrical methods in theoretical physics, 89j:00012**
(Borevich, Z. I.) *see* **Rings and modules. Limit theorems of probability theory, 89f:00015**
(Borisov, A. N.) *see* **Decision-making methods and systems. Applied problems in the analysis of solutions in technical systems, 89h:00001**
(Buĭkis, A. A.) *see* **Applied problems in mathematical physics, 89f:00005**
(Bulatov, V. P.) *see* **Models and methods in operations research, 89j:00018**
(Caianiello, Eduardo R.) *see* **Investigations in the theory of structures, 89k:00005**
(Casti, J.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Cavaillès, Jean) *see* **Mathematics and philosophy: Jean Cavaillès, Albert Lautman, 89j:00016**
(Chernyshenko, V. M.) *see* **Methods for solving nonlinear problems, and data processing, 89f:00011**
(Chikhanov, Kh. A.) *see* **Analytic methods for solving differential equations, 89c:00004** *and* **Analytical methods in the theory of differential and integral equations, 89c:00005**
(Chirikov, B. V.) *see* **Progress in chaotic dynamics**, (Not in MR)
(Christiansen, P. L.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Cowling, Michael) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009**
(Dorogovtsev, A. Ya.) *see* **Mathematics today '88, 89i:00022**
(Drobyshev, Yu. P.) *see* **Mathematical models for the representation of information and data processing problems, 89a:00010**
(Dutta, Mahadev) *see* **Festschrift: Dutta, Mahadev, 89f:00007**
(Dybin, V. B.) *see* **Differential and integral equations and complex analysis, 89b:00010**
(Èngel'son, E.) *see* **Topological structures and their mappings, 89b:00019**
(Esogbue, A. O.) *see* **Mathematics of systems and computations**, (Not in MR)
(Faradzhev, R. G.) *see* **Discrete mathematics and computer software, 89b:00011**
(Flaschka, Hermann) *see* **Progress in chaotic dynamics**, (Not in MR)
(Ford, Joseph) *see* **Progress in chaotic dynamics**, (Not in MR)
(Fushchich, V. I.) *see* **Symmetry and solutions of nonlinear equations of mathematical physics, 89b:00018**
(Gabibzade, A. Sh.) *see* **Linear operators and their applications, 89c:00016**
(Gaede, Karl-Walter) *see* **Contributions to applied mathematics and statistics, 89i:00018**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Newest results, 89c:00010; Algebra. Topology. Geometry, 89g:00004** *and* **Probability theory. Mathematical statistics. Theoretical cybernetics, 89g:00011**
(Haario, H.) *see* **Theory and applications of inverse problems, 89c:00029**
(Heinhold, Josef) *see* **Contributions to applied mathematics and statistics, 89i:00018**
(Hildebrandt, Stefan) *see* **Partial differential equations and calculus of variations, 89g:00010**
(Imanaliev, M. I.) *see* **Studies in integro-differential equations, 89b:00017**
(Ivanov, A. V.) *see* **Problems in geometry and topology, 89g:00012**
(Ivanov, V. T.) *see* **Investigations in the theory of the approximation of functions, 89a:00007**
(Ivanov, Valentin Konstantinovich) *see* **Nonlinear problems in generalized functions, 89j:00019**
(Karlqvist, A.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Kashiwara, Masaki) *see* **Algebraic analysis, 89j:00006** *and* **89j:00007**
(Kasim-Zade, O. M.) *see* **Cybernetics collection. New series, 89i:00019**
(Kawai, Takahiro) *see* **Algebraic analysis, 89j:00006** *and* **89j:00007**
(Klokov, Yu. A.) *see* **Current topics in boundary value problems. Theory and applications, 89j:00009**
(Kochergin, A. N.) *see* **Interaction of the sciences as a factor in their development, 89j:00014**
(Korneĭchuk, N. P.) *see* **Some problems in analysis and differential topology, 89e:00007** *and* **Investigations in theoretical and applied problems of mathematics, 89g:00009**
(Korolyuk, V. S.) *see* **Asymptotic methods in mathematical physics, 89g:00006**
(Kuchment, P. A.) *see* **Function spaces and equations of mathematical physics, 89c:00013**
(Kudryavtsev, L. D.) *see* **Investigations in the theory of the approximation of functions, 89a:00007**
(Lautman, Albert) *see* **Mathematics and philosophy: Jean Cavaillès, Albert Lautman, 89j:00016**
(Lavrent'ev, M. M.) *see* **Questions of well-posedness and methods for the investigation of inverse problems, 89b:00015; Some problems in differential equations and discrete mathematics, 89b:00016** *and* **Mathematical analysis and differential equations, 89j:00015**
(Lawrynowicz, Julian) *see* **Deformations of mathematical structures, 89j:00010**
(Leis, R.) *see* **Partial differential equations and calculus of variations, 89g:00010**
(Lions, J.-L.) *see* **Mathematical analysis and applications, 89c:00017**
(Lukovskiĭ, I. A.) *see* **Applied problems in the dynamics and stability of multidimensional systems, 89c:00007**
(Luk'yanov, A. T.) *see* **Numerical and analytical methods for solving boundary value problems, 89m:00007**
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(Lysko, V. V.) *see* **Systems for the control of turbines in nuclear power plants, 89i:00023**
(Marchenko, V. A.) *see* **Operators in function spaces and problems in function theory, 89a:00011**
(Matveev, N. M.) *see* **Mathematical physics, 89c:00019; Partial differential equations, 89c:00023** *and* **Mathematical analysis, 89i:00021**
(Meaney, C.) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009**
(Mitropol'skiĭ, Yu. A.) *see* **Problems of the stability of integral manifolds in equations of mathematical physics, 89c:00026**
(Moran, William) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009**
(Mosyagin, V. V.) *see* **Problems in functional analysis, 89a:00013**
(Murganov, B. P.) *see* **Systems for the control of turbines in nuclear power plants, 89i:00023**
(Nakhushev, A. M.) *see* **Nonlocal problems for partial differential equations and their applications to modeling and automation of the design of complex systems, 89f:00012** *and* **Methods for mathematical modeling in systems of automated design and planning, 89j:00017**
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(Novikov, S. P.) *see* **Mathematical physics reviews, 89e:00004**
(Orlov, Yu. F.) *see* **Asymptotic methods, 89a:00002**
(Ostianu, N. M.) *see* **Problems in geometry, 89e:00006**
(Petrila, Titus) *see* **Seminar: Mechanics, 89f:00016**
(Petrov, Valentin Vladimirovich) *see* **Rings and modules. Limit theorems of probability theory, 89f:00015**
(Ponomarev, V. M.) *see* **Problems in the integrated automation of production, 89j:00020**
(Pop, Ioan^{2}) *see* **Seminar: Mechanics, 89f:00016**
(Prilepko, A. I.) *see* **Function-theoretic methods in problems of mathematical physics, 89b:00012**
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(Rassias, Themistocles M.) *see* **Nonlinear analysis, 89b:00014**
(Remeslennikov, V. N.) *see* **Computable invariants in the theory of algebraic systems, 89g:00007**
(Ritter, Klaus) *see* **Contributions to applied mathematics and statistics, 89i:00018**
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(Shabanov-Kushnarenko, Yu. P.) *see* **Problems of bionics, 89c:00025** *and* **89f:00014**
(Shapiro, A. P.) *see* **Problems in applied analysis, 89m:00008**
(Sharkovskiĭ, A. N.) *see* **Functional-differential equations and their application to nonlinear boundary value problems, 89b:00013**
(Shcherbakov, B. A.) *see* **Investigations in differential equations and mathematical analysis, 89c:00015**
(Shevlyakov, Yu. A.) *see* **Dynamic systems, 89a:00004** *and* **Dynamical systems, 89c:00012**
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(Tsyganova, N. Ya.) *see* **Differential equations and applied problems, 89g:00008**
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(Zhensykbaev, A. A.) *see* **Some problems in functional analysis, differential equations, and their applications, 89a:00016** *and* **Theory of functions, equations of mathematical physics and their applications, 89j:00026**
(Zhuravlëv, Yu. I.) *see* **Mathematical methods in pattern recognition and discrete optimization, 89a:00009**

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Algebra ★ Algèbre. (French) [Algebra] **89j:00005**
Algebra and discrete mathematics ★ Алгебра и дискретная математика. (Russian) [Algebra and discrete mathematics] **89g:00005**
Algebra. Topology. Geometry ★ Algebra. Topology. Geometry. Vol. 23. **89b:00006**
— ★ Алгебра. Топология. Геометрия. Том 26. (Russian) [Algebra. Topology. Geometry. Vol. 26] **89g:00004**
— ★ Algebra. Topology. Geometry. Vol. 24. **89k:00004**
Algebraic analysis ★ Algebraic analysis. Vol. I. **89j:00006**
— ★ Algebraic analysis. Vol. II. **89j:00007**
Algèbre ★ Algèbre. (French) [Algebra] **89j:00005**
All-Union School:
  Optimization Methods ★ Модели и методы исследования операций. (Russian) [Models and methods in operations research] **89j:00018**
Analyse mathématique et applications ★ Analyse mathématique et applications. [Mathematical analysis and applications] **89c:00017**
Analysis of information-computing systems ★ Анализ информационно-вычислительных систем. (Russian) [Analysis of information-computing systems] **89a:00001**
Analytic methods for solving differential equations ★ Аналитические методы решения дифференциальных уравнений. (Russian) [Analytic methods for solving differential equations] **89c:00004**
Analytical methods in the theory of differential and integral equations ★ Аналитические методы в теории дифференциальных и интегральных уравнений. (Russian) [Analytical methods in the theory of differential and integral equations] **89c:00005**
Application of functional analysis in approximation theory ★ Применение функционального анализа в теории приближений. (Russian) [Application of functional analysis in approximation theory] **89c:00006**
Application of methods of functional analysis in problems of mathematical physics ★ Применение методов функционального анализа в задачах математической физики. (Russian) [Application of methods of functional analysis in problems of mathematical physics] **89b:00007**
Applied problems in mathematical physics ★ Прикладные задачи математической физики. (Russian) [Applied problems in mathematical physics] **89e:00003**
— ★ Прикладные задачи математической физики. (Russian) [Applied problems in mathematical physics] **89f:00005**
Applied problems in the dynamics and stability of multidimensional systems ★ Прикладные задачи динамики и устойчивости многомерных систем. (Russian) [Applied problems in the dynamics and stability of multidimensional systems] **89c:00007**
Asymptotic methods ★ Асимптотические методы. (Russian) [Asymptotic methods] **89a:00002**
Asymptotic methods in mathematical physics ★ Асимптотические методы математической физики. (Russian) [Asymptotic methods in mathematical physics] **89g:00006**
Atlanta, GA ★ The mathematics of systems and computations. (Not in MR)
Beiträge zur Angewandten Mathematik und Statistik ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
Birthday:
  Dutta, Mahadev ★ Festschrift for Professor Mahadev Dutta. **89f:00007**
  Ford, Joseph ★ Progress in chaotic dynamics. (Not in MR)
  Heinhold, Josef ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
  Sato, Mikio ★ Algebraic analysis. Vol. I. **89j:00006**
  — ★ Algebraic analysis. Vol. II. **89j:00007**
Boundary value problems ★ Краевые задачи. (Russian) [Boundary value problems] **89c:00008**
— ★ Краевые задачи. (Russian) [Boundary value problems] **89b:00008**
— ★ Краевые задачи. (Russian) [Boundary value problems] **89c:00009**
Calcutta ★ Festschrift for Professor Mahadev Dutta. **89f:00007**
Canberra ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**
Cluj-Napoca ★ Seminar on Numerical and Statistical Calculus. **89c:00027**
— ★ Seminar on Mathematical Analysis. **89j:00024**
Colloquium:
  Kinetic Theory of Evaporation/Condensation Phenomena ★ Proceedings of Euromex Colloquium 224 on Kinetic Theory Aspects of Evaporation/Condensation Phenomena. (Not in MR)
Como ★ Differential geometrical methods in theoretical physics. **89j:00012**
Computable invariants in the theory of algebraic systems ★ Вычислимые инварианты в теории алгебраических систем. (Russian) [Computable invariants in the theory of algebraic systems] **89g:00007**
Conference:
  Differential Geometrical Methods in Theoretical Physics ★ Differential geometrical methods in theoretical physics. **89j:00012**
  Harmonic analysis and operator algebras ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**
Contributions to applied mathematics and statistics ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
Current problems in applied mathematics and in mathematical physics ★ Современные проблемы прикладной математики и математической физики. (Russian) [Current problems in applied mathematics and in mathematical physics] **89j:00008**
Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 32. (Russian) [Current problems in mathematics. Newest results. Vol. 32] **89c:00010**
— ★ Current problems in mathematics. Newest results. Vol. 30. **89f:00006**
Current topics in boundary value problems. Theory and applications ★ Актуальные вопросы краевых задач. Теория и приложения. (Russian) [Current topics in boundary value problems. Theory and applications] **89j:00009**
Cybernetics collection. New series ★ Кибернетический сборник. Новая серия. Вып. 25. (Russian) [Cybernetics collection. New series. No. 25] **89i:00019**
Decision-making methods and systems. Applied problems in the analysis of solutions in technical systems ★ Методы и системы принятия решений. Прикладные задачи анализа решений в технических системах. (Russian) [Decision-making methods and systems. Applied problems in the analysis of solutions in technical systems] **89h:00001**
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  - **Theoretical, Computational, and Practical Aspects of Wave Phenomena** ★ Wave phenomena. **89g:00020**
  - **Union of Bulgarian Mathematicians** ★ Математика и математическо образование. (Bulgarian) [Mathematics and mathematical education] **89c:00038**
- **Congress:**
  - **ECM/87. Educational Computing in Mathematics** ★ ECM/87. Educational computing in mathematics. **89f:00024**
  - **Escher, M. C.** ★ M. C. Escher: art and science. **89m:00011**
  - **Learned Societies** ★ Actes du 112^e Congrès National des Sociétés Savantes. (French) [Proceedings of the 112th National Congress of Learned Societies] **89g:00016**
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  - **Mathematicians** ★ Proceedings of the International Congress of Mathematicians. Vol. 1, 2. **89c:00042**
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- **Contributions to conceptual analysis** ★ Beiträge zur Begriffsanalyse. (German) [Contributions to conceptual analysis] **89a:00018**
- **Contributions to general algebra** ★ Contributions to general algebra. 5. (German) **89b:00022**
- **Control of partial differential equations** ★ Control of partial differential equations. **89j:00028**
- **Cortona** ★ Symposia Mathematica. Vol. XXIX. **89b:00028**
- **Crystal symmetries** ★ Crystal symmetries. **89j:00029**
- **Current problems in mathematical physics** ★ Современные проблемы математической физики. Том I. (Russian) [Current problems in mathematical physics. Vol. I] **89j:00030**
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- **Differential geometry** ★ Géométrie différentielle. (French) [Differential geometry] **89c:00035**
- **Discrete event systems: models and applications** ★ Discrete event systems: models and applications. **89a:00019**
- **Dresden** ★ Mathematisierung—mathematische Modellierung—Wissenschaftsentwicklung. (German) [Mathematization—mathematical modelling—scientific development] **89c:00039**

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- **Durham, NC** ★ The mathematical heritage of Hermann Weyl. 89f:00026
- **ECM/87. Educational computing in mathematics** ★ ECM/87. Educational computing in mathematics. 89f:00024
- **Escher: art and science** ★ M. C. Escher: art and science. 89m:00011
- **Faulx-les-Tombes** ★ Deuxième Contact Franco-Belge en Algèbre. [Second Franco-Belgian Meeting on Algebra] 89g:00014
- **Fixed point theory and its applications** ★ Fixed point theory and its applications. 89c:00036
- **Florence** ★ Teoria dei gruppi e geometria combinatoria. [Group theory and combinatorial geometry] 89j:00032
- **Fractals, quasicrystals, chaos, knots and algebraic quantum mechanics** ★ Fractals, quasicrystals, chaos, knots and algebraic quantum mechanics. 89c:00037
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- **Géométrie différentielle** ★ Géométrie différentielle. (French) [Differential geometry] 89c:00035
- **Group theory and combinatorial geometry** ★ Teoria dei gruppi e geometria combinatoria. [Group theory and combinatorial geometry] 89j:00032
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- **IFIP Conference:**
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- **Mathematical heritage of Hermann Weyl** ★ The mathematical heritage of Hermann Weyl. 89f:00026
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  Boundary and Interior Layers—Computational and Asymptotic Methods ★ BAIL V. **89j:65008**
  Boundary Elements ★ Boundary elements VII. Vol. I, II. **89f:65003**
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Meeting:
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Tübingen ★ The physics of structure formation. **89b:58064**
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00A12 Translation volumes, reprintings, etc. [see also 01A75]

(Kholevo, A. S.) *see* **Quantum random processes and open systems, 89f:00031**
(Kovalishina, I. V.) *see* **American Mathematical Society Translations, Series 2, 89f:00030**
(McFaden, H. H.) *see* **American Mathematical Society Translations, Series 2, 89f:00030**
(Potapov, V. P.) *see* **American Mathematical Society Translations, Series 2, 89f:00030**
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(Silver, Ben) *see* **American Mathematical Society Translations, Series 2, 89e:00011; 89f:00030** *and* **89h:00005**

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Investigations in applied mathematics ★ Investigations in applied mathematics. No. 2. **89b:00030**
— ★ Investigations in applied mathematics. No. 1. **89c:00046**
— ★ Investigations in applied mathematics. No. 5. (Not in MR)
Mathematical physics and complex analysis ★ Mathematical physics and complex analysis. (Not in MR)
Quantum random processes and open systems ★ Квантовые случайные процессы и открытые системы. (Russian) [Quantum random processes and open systems] **89f:00031**
Selected translations ★ Selected translations. **89e:00012**
— ★ Selected translations. **89e:00013**
— ★ Selected translations. **89e:00014**
— ★ Selected translations. **89h:00006**
— ★ Selected translations. **89h:00007**
Sugaku Expositions ★ Sugaku Expositions. **89k:00011**
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— ★ Sugaku Expositions. **89k:00012**
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— ★ Transactions of the Moscow Mathematical Society. **89a:00027**

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(Novikov, S. P.) *see* **Mathematical physics reviews, 89e:00004**
(Parshin, A. N.) *see* **Algebra and number theory (with applications), 89f:11005**
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Neuser, Wolfgang Sekundärliteratur zu Hegels Naturphilosophie (1802–1985). [Secondary literature on Hegel's natural philosophy (1802–1985)] (*see* **89m:00020**)

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  Mathematical ★ Vieweg Mathematik Lexikon. (German) [Vieweg mathematical dictionary] **89f:00032**
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  Mathematics ★ Sugaku jiten. (Japanese) [Mathematics dictionary] **89b:00032**
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  Economics ★ Lexikon der Wirtschaft. (German) [Lexicon of economics] **89f:90001**
  Exact natural sciences, biographical-literary *see* **Poggendorff, J. C., 89f:01075**
  Outstanding mathematicians *see* **Borodin, A. I., 89i:01064**

Handbook:
  Artificial intelligence ★ The handbook of artificial intelligence. Vol. I. **89e:68104a**
  — ★ The handbook of artificial intelligence. Vol. II. **89e:68104b**
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  Finite element ★ Finite element handbook. **89g:65001**
Reviews in partial differential equations ★ Reviews in partial differential equations 1980–86. Vol. 1–5. **89f:35001**

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(Arnold, Günter) *see* **Netz, H., 89h:00009**
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Netz, H. ★ Formeln der Mathematik. (German) [Formulas in mathematics] **89h:00009**
Prudnikov, A. P. (*with* Brychkov, Yu. A.; Marichev, O. I.) ★ Integrals and series. Vol. 2. **89i:00030**
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Agazzi, Evandro ★ Philosophie, science, métaphysique. (French) [Philosophy, science, metaphysics] **89e:00015**
Anellis, Irving H. Russell and Engels: two approaches to a Hegelian philosophy of mathematics. **89e:00016**
Apostel, Leo Le néo-connexionnisme et la théorie de l'argumentation. [Neoconnectionism and the theory of argumentation] (*see* **89b:03005**)
Balkhanov, V. A. ★ Философско-методологические основы математизации знания. (Russian) [Philosophical-methodological foundations of the mathematization of knowledge] **89b:00034**
Barabashev, A. G. (*with* Demidov, S. S.; Panov, M. I.) Regularities and modern tendencies of the development of mathematics. **89m:00016**
— On the impact of the world outlook on mathematical creativity. **89j:00039**
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Bebbouchi, R. Analyse non standard et pédagogie. [Nonstandard analysis and pedagogy] **89m:00017**
Bondarenko, T. M. Formal and intuitive aspects of the mathematization of knowledge. (Russian) **89a:00030**
(Bourbaki, Nicolas) *see* **Toth, Imre, 89a:00032b**
Browder, Felix E. Mathematics and the sciences. **89e:00017**
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Burgin, M. S. (*with* Kuznetsov, V. I.) Problems as components of a problem-heuristic subsystem of a scientific theory. (Russian) **89b:00035**
Burova, I. N. ★ Развитие проблемы бесконечности в истории науки. (Russian) [The development of the problem of infinity in the history of science] **89c:00048**
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Crowe, Michael J. Ten misconceptions about mathematics and its history. **89e:00018**
Davis, Philip J. Applied mathematics as social contract. **89d:00014**
Demidov, S. S. *see* **Barabashev, A. G.; et al., 89m:00016**
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Fleischhacker, Louis Eduard Quantität, Mathematik und Naturphilosophie, [Quantity, mathematics and natural philosophy] (*see* **89m:00020**)
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Kapur, J. N. Twelve wise men look at the elephant called mathematics. (Not in MR)
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— Wissenschaft und Wissenschaftler im postmodernen Zeitalter. [Science and scientists in the postmodern era] **89a:00032b**
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Yan, Jia An *see* **Wang, Qi Ming; et al.**, (Not in MR)
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01–XX History and biography [see also the classification number –03 in the other sections]

Items with secondary classifications in 01–XX

(Bradley, F. H.) *see* **Glouberman, M.**, (Not in MR)
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01–01 Elementary exposition; textbooks

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01A05 General histories, source books

(Bair, Lowell) *see* **Ifrah, Georges, 89f:01006**
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Cackowski, Zdzisław Epistemological obstacles in the scientific development. (*see* **89m:01042**)
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Dovlatova, L. I. *see* **Kulieva, G. Z., 89m:01005**
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Folkerts, Menso (*with* Kühne, Andreas; Segre, Michael) Der Aufbau einer Datenbank für die Geschichte der europäischen Mathematik im Mittelalter und der Renaissance. [The setup of a databank for the history of European mathematics in the Middle Ages and Renaissance] **89m:01003**
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Rosenfeld, B. A. ★ A history of non-Euclidean geometry. **89k:01001**
Sain, Márton ★ Matematikatörténeti ABC. (Hungarian) [History of mathematics ABC] **89f:01007**
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01A10 Primitive, Paleolithic, Neolithic

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Raĭnov, T. I. Methods for the calculation of knowledge from monuments of material culture in Central Asia. (Russian) **89c:01007**
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01A12 Native American (i.e. Aztec, Inca, Maya, etc.)

Pareja Heredia, Diego Pre-Hispanic tools of computation: the quipu and the yupana. (Spanish) **89c:01008**

01A15 Pre-Greek, Egyptian

(James, T. G. H.) *see* **Robins, Gay, 89a:01005**
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01A17 Babylonian

Britton, John P. The structure and parameters of Column Φ. **89i:01002**
Linton, Matthew Babylonian triples. **89h:01002**
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01A20 Greek, Roman

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(Apollonius of Perga) *see* **Di Stefano, Maria Elena, 89a:01006** *and* **Saito, Ken, 89m:01010**
(Archimedes) *see* **Knorr, Wilbur R., 89a:01009; Sato, Tohru, 89a:01010; 89a:01011; Knorr, Wilbur R., 89g:01005** *and* **Berggren, J. L., 89j:01008**
(Archytas) *see* **Hughes, Barnabas B., 89m:01009**
(Aristotle) *see* **Vita, Vincenzo, 89g:01006; White, Michael J., 89g:01007; Krischer, Tilman, 89h:01006; Dancy, Russell M., (89a:03004)** *and* **Hintikka, Jaakko, (89a:03004)**
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Fowler, D. H. ★ The mathematics of Plato's Academy. **89h:01005**
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— A reconstruction of *The Method* Proposition 17, and the development of Archimdedes' thought on quadrature. Why did Archimedes not notice the internal connection in the problems dealt with in many of his works? II. **89a:01011**
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Bundy, Alan Incidence calculus: a mechanism for probabilistic reasoning. **89j:68140**
— Correctness criteria of some algorithms for uncertain reasoning using incidence calculus. **89k:68137**
Chuaqui, Rolando Sets of relational systems as models for stochastic processes. **89f:60005**
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Delgado, M. (*with* Moral, S.) A definition of inclusion for evidences. **89m:60009**
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Williams, John N. The preface paradox dissolved. **89j:03005**
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03B50 Many-valued logic

Alekseev, V. B. Stepwise bilinear algorithms and recognition of completeness in k-valued logics. **89m:03016**
Aliseĭchik, P. A. The maximal length of a basis in P_4. (Russian) **89c:03042**
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Danil′chenko, A. F. Some properties of the lattice of parametrically closed classes of functions of three-valued logic. (Russian) **89b:03043**
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— Classification of the three-valued logical symmetric functions. (Serbo-Croatian summary) **89i:03048**
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Shtrakov, Slavcho Vl. On the anulator sets of variables for the functions. (Russian summary) **89c:26025**
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03B52 Fuzzy logic [see also 94D05]

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Giles, Robin The concept of grade of membership. **89d:03022**
Hisdal, Ellen Are grades of membership probabilities? **89j:03019**
Liu, Xu Hua Fuzzy reasoning with equality relation in operator fuzzy logic. **89k:03024**
Martin-Clouaire, Roger Efficient deduction in fuzzy logic. **89h:03038**
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Türksen, I. B. Approximate reasoning for production planning. (Not in MR)
Wu, Mao Kang Rules for automated reasoning in fuzzy logic. (Chinese. English summary) **89j:03021**
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03B55 Intermediate logics

Bellissima, Fabio Finite and finitely separable intermediate propositional logics. **89h:03040**
Goranko, Valentin F. Some syntactic and semantic relations between superintuitionistic and multiple-valued propositional logics. (Bulgarian summary) **89e:03036**
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Takano, Mitio A negative answer to Ono's first problem: K-completeness does not imply strong K-completeness. **89c:03047**
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Sharov, S. I. Constructive intuitionistic models. I. (Russian) **89a:03118**
Zakhar′yashchev, M. V. The disjunction property of superintuitionistic and modal logics. (Russian) **89b:03040**

03B60 Other nonclassical logic

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Adámek, Jiří (*with* Mekler, Alan H.; Nelson, Evelyn M.; Reiterman, Jan) On the logic of continuous algebras. **89h:03041**
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Cīrulis, Jānis Definitions in protothetics. (Russian) **89m:03021**
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Hoffman, William C. A formal model for dialectical psychology. (Not in MR)
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03Cxx Model theory

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03Dxx Recursion theory

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Narendran, Paliath (*with* Otto, Friedrich) Elements of finite order for finite weight-reducing and confluent Thue systems. **89k:03043**
Otto, Friedrich The undecidability of self-embedding for finite semi-Thue and Thue systems. **89b:03060**
— *see also* **Narendran, Paliath, 89k:03043**

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Kolyada, K. V. Undecidability of the completeness problem for some functional systems of Kleene type. (Russian) **89e:03064**
McEliece, Robert J. *see* **Swanson, Laif, 89d:68048**
McNaughton, Robert (*with* Narendran, Paliath; Otto, Friedrich) Church-Rosser Thue systems and formal languages. **89e:68068**
Narendran, Paliath *see* **McNaughton, Robert; et al., 89e:68068**
Oleshchuk, V. A. *see* **Anisimov, A. V., 89f:68037**
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Rubin, Frank The cryptographic uses of Post tag systems. **89e:94010**
Swanson, Laif (*with* McEliece, Robert J.) A simple decision procedure for Hofstadter's MIU-system. **89d:68048**

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Büchi, J. Richard (*with* Senger, Steven) Coding in the existential theory of concatenation. **89b:03061**
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Lindsay, Peter A. On alternating ω-automata. **89i:03076**
Markov, Andreĭ Andreevich Local models of languages, and systems of constraints on words. (Russian) **89k:03044**
Moriya, Tetsuo Topological characterizations of infinite tree languages. **89d:03036**
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Parigot, Michel Automates, réseaux, formules. [Automata, networks, formulas] **89m:03029**
— Automata, games, and positive monadic theories of trees. **89f:03030**
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Tătărâm, Monica Darboux property and one-argument primitive recursive string functions. **89f:03031**
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van Benthem, Johan Towards a computational semantics. (*see* **89m:03003**)
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Boolos, George Alphabetical order. **89d:04003**
Boonyavatana, R. (*with* Slutzki, Giora) The interchange or pump (di)lemmas for context-free languages. **89i:68073**
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Chan, Tat Hung On two-way weak counter machines. **89a:68047**
— Pushdown automata with reversal-bounded counters. **89k:68037**
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Chrobak, Marek Hierarchies of one-way multihead automata languages. **89j:68111**
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— An axiomatic definition of context-free rewriting and its application to NLC graph grammars. **89c:68070**
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— On invertible cellular automata. **89e:68094**
— (*with* Yu, Sheng) The emptiness problem for CA limit sets. **89j:68114**
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Meduna, A. Characterization of the Chomsky hierarchy through sequential-parallel grammars. **89d:68045**
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(Pustejovsky, James) *see* **Moll, Robert N.; et al., 89j:68084**
Radhakrishnan, V. (*with* Nagaraja, G.) Inference of regular grammars via skeletons. **89a:68182**
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Stanevichene, L. I. On the problem of the intersection emptiness of deterministic languages. (Russian. English summary) **89c:68063**
Swanson, Laif (*with* McEliece, Robert J.) A simple decision procedure for Hofstadter's MIU-system. **89d:68048**
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— *see also* **Latteux, M., 89h:68085**
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Vogler, Heiko The OI-hierarchy is closed under control. **89m:68080**
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Burgin, M. S. The arithmetical hierarchy and inductive Turing machines. **89f:03032**
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McCarthy, Timothy (*with* Shapiro, Stewart) Turing projectability. **89b:03064**
Oberschelp, Arnold (*with* Schmidt-Göttsch, Karsten; Todt, Günter) Castor quadruplorum. **89k:03045**
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(Berman, Leonard) *see* **Chang, Jik H.; et al., 89a:68048**
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Grädel, Erich Domino games with an application to the complexity of Boolean algebras with bounded quantifier alternations. **89e:68037**
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Itō, Akira (*with* Inoue, Katsushi; Takanami, Itsuo) A note on three-way two-dimensional alternating Turing machines. **89d:68013**
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Ko, Ker-I On helping by robust oracle machines. **89a:68075**
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Kurtz, Stuart A. A note on randomized polynomial time. **89c:03066**
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Calude, Cristian ★ Theories of computational complexity. **89g:03057**
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Amir, Amihood (*with* Gasarch, William) Polynomial terse sets. **89c:68032**
Babai, László Random oracles separate PSPACE from the polynomial-time hierarchy. **89k:68046**
Bajaj, Chanderjit Geometric optimization and the polynomial hierarchy. **89c:68033**
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Balcázar, José L. (*with* Díaz, Josep; Gabarró, J.) On characterizations of the class PSPACE/poly. **89c:68034**
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— (*with* Orponen, P.; Russo, D.; Watanabe, Osamu) Lowness properties of sets in the exponential-time hierarchy. **89h:68049**
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— On the computational complexity of best Chebyshev approximations. **89g:68027**
— On the notion of infinite pseudorandom sequences. **89a:68074**
— (*with* Long, Timothy J.; Du, Ding Zhu) On one-way functions and polynomial-time isomorphisms. **89c:68036**
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— (*with* Friedman, Harvey) Computing power series in polynomial time. **89c:03098**
— *see also* **Book, Ronald V., 89i:68039**
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Regan, Kenneth W. The topology of provability in complexity theory. **89k:68050**
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– *see also* **Köbler, Johannes; et al., 89h:68052**
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Van Gelder, Allen A satisfiability tester for nonclausal propositional calculus. **89m:68067**
Vardanyan, V. A. Bounds on the arithmetical complexity of predicate logics of provability. (Russian) **89f:03013**
Vazirani, Umesh V. Strong communication complexity or generating quasirandom sequences from two communicating semirandom sources. **89f:68031**
Vorob′ev, N. N., Jr. (*with* Grigor′ev, D. Yu.) Solution of systems of polynomial inequalities over real-closed fields in subexponential time. (Russian. English summary) **89m:68073**
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– *see also* **Book, Ronald V.; et al., 89h:68049**
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Wilson, Christopher B. Relativized NC. **89d:68023**
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03D20 Recursive functions and relations, subrecursive hierarchies

Asser, Günter Zur Robinson-Charakterisierung der einstelligen primitiv rekursiven Wortfunktionen. [On the Robinson characterization of primitive recursive word functions of one variable] **89h:03070**
Golunkov, Yu. V. Approximation completeness in algebras of partial recursive functions and predicates. (Russian. English summary) **89g:03059**
Hauck, Jürgen Eine berechenbare Funktion mit rationalen Werten, die nicht rekursiv ist. [A computable function with rational values which is not recursive] **89d:03037**
Kummer, Martin Walter The length problem for co-r.e. sets. **89f:03033**
Kutyłowski, Mirosław Small Grzegorczyk classes. **89a:03077**
Levitz, Hilbert (*with* Nichols, Warren) Eine rekursive universelle Funktion für die primitiv-rekursiven Funktionen. [A recursive universal function for the primitive recursive functions] **89d:03038**
– (*with* Nichols, Warren) A natural variant of Ackermann's function. **89k:03048**
Martirosyan, A. A. Some classes of reliable algorithms for inductive inference. (Russian. Armenian summary) **89b:03067**
Mihnea, Georgeta Properties and applications of E-recursive functions. **89c:03067**
Nichols, Warren *see* **Levitz, Hilbert, 89d:03038** *and* **89k:03048**
Posiewnik, Andrzej Computability of physical operations. **89g:03060**
Seibt, Heinz On composition of partial recursive definitions. (German and Russian summaries) **89a:03078**
Sun, Zhi Wei Some results on recursive functions. (Chinese. English summary) **89f:03034**
Voronkov, A. A. Computable functions and the Markov principle. (Russian) **89e:03067**
Zeugmann, Thomas On Barzdin's conjecture. **89c:03068**

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Andréka, Hajnal (*with* Craig, William Lane; Németi, I.) A system of logic for partial functions under existence-dependent Kleene equality. **89i:03055**
Asarin, E. A. Some properties of finite sequences that are Δ-random in the sense of Kolmogorov. (Russian) **89j:68074**
Burgin, M. S. The arithmetical hierarchy and inductive Turing machines. **89f:03032**
Buss, Samuel R. ★ Bounded arithmetic. **89h:03104**
Chaitin, Gregory J. ★ Information, randomness & incompleteness. **89f:01089**
Craig, William Lane *see* **Andréka, Hajnal; et al., 89i:03055**
Daley, Robert P. (*with* Smith, Carl H.) On the complexity of inductive inference. **89a:03049**
Dawson, John W., Jr. Facets of incompleteness. **89e:03008**
Ershov, Yu. L. (*with* Samokhvalov, K. F.) A new approach to the methodology of mathematics. (Russian) **89c:03007**
Grossman, Jerrold W. (*with* Zeitman, R. Suzanne) An inherently iterative computation of Ackermann's function. **89i:03078**
Kadota, Noriya Relativized ordinal recursive functions and Paris-Harrington principles. **89g:03063**
Köbler, Johannes (*with* Schöning, Uwe; Wagner, Klaus Werner) The difference and truth-table hierarchies for NP. (French summary) **89g:03058**
Liu, Yong Cai A linear method for evaluating the Cantor pairing function on n-tuples and its inverse. (Chinese. English summary) (Not in MR)
Madan, Dilip B. (*with* Owings, James C., Jr.) Decision theory with complex uncertainties. **89j:03016**
Marandzhyan, G. B. A method for synthesis of programs for numerical functions. (Russian. Armenian summary) **89a:68196**
McCarthy, Timothy (*with* Shapiro, Stewart) Turing projectability. **89b:03064**
Muchnik, An. A. Lower bounds for frequencies in computable sequences, and relativized a priori probability. (Russian) **89j:68075**
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Osherson, Daniel N. (*with* Stob, Michael; Weinstein, Scott) Synthesizing inductive expertise. **89m:68117**
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Royer, James S. ★ A connotational theory of program structure. **89f:68011**
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Shelah, Saharon Primitive recursive bounds for van der Waerden numbers. **89a:05017**
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Solomon, Martin K. A connection between Blum speedable sets and Gödel's speed-up theorem. **89b:03065**
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Tătărâm, Monica Darboux property and one-argument primitive recursive string functions. **89f:03031**
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Zwicker, William S. Playing games with games: the hypergame paradox. **89e:90221**

03D25 Recursively enumerable sets and degrees

Artëmov, S. N. Degrees of unsolvability of extensions of arithmetic by true propositions. **89b:03068**
Brandt, Ulrike Index sets in the arithmetical hierarchy. **89d:03039**
Cooper, S. Barry (*with* Epstein, Richard L.) Complementing below recursively enumerable degrees. **89f:03035**
Deutsch, Michael Spectral representation of recursively enumerable and coenumerable predicates. **89d:03040**
– Eine Bemerkung zur spektralen Darstellung aufzählbarer und koaufzählbarer Prädikate durch Ausdrücke aus $\forall\exists\forall\exists^\infty(\rho, 1)$. [A remark on the spectral representation of r.e. and co-r.e. predicates by $\forall\exists\forall\exists^\infty(\rho, 1)$ formulas] **89f:03036a**
– Eine Bemerkung zur spektralen Darstellung von ρ-Stelligen aufzählbaren und koaufzählbaren Prädikaten durch Ausdrücke aus $\exists^\infty\forall^3\exists(\rho, 1)$, $\forall^\infty\exists(\rho, 1)$ und $\forall^3\exists(\infty, 1)$. [A remark on the spectral representation of ρ-place recursively enumerable and co-enumerable predicates by expressions from $\exists^\infty\forall^3\exists(\rho, 1)$, $\forall^\infty\exists(\rho, 1)$ and $\forall^3\exists(\infty, 1)$] **89f:03036b**
Ding, De Cheng R.e. degrees of recursively inseparable sets. (Chinese) **89b:03069**
– A splitting property of r.e. sets. (Chinese. English summary) **89d:03041**
Downey, R. G. Maximal theories. **89c:03069**
– Δ_2^0 degrees and transfer theorems. **89c:03070**
Epstein, Richard L. *see* **Cooper, S. Barry, 89f:03035**
Kučera, Antonín On the role of $\mathbf{0}'$ in recursion theory. **89b:03070**
Kummer, Martin Walter Negative results about the length problem. **89a:03079**
Lempp, Steffen Hyperarithmetical index sets in recursion theory. **89a:03080**
– A high strongly noncappable degree. **89c:03071**
Mohrherr, Jeanleah A remark on the length problem. **89m:03032**
Pokrass, D. J. A note on distance increasing reducibility. **89j:03033**
Shmidt, Yu. D. On the class of special sets. (Russian) **89h:03071**
Sorbi, Andrea On quasiminimal e-degrees and total e-degrees. **89e:03068**
Sui, Yue Fei Some results about the r.e. degrees. **89a:03081**

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Downey, R. G. (*with* Remmel, J. B.; Welch, L. V.) Degrees of splittings and bases of recursively enumerable subspaces. **89b:03073**
– Two theorems on truth table degrees. **89i:03082**
Fejer, Peter A. (*with* Shore, Richard A.) Infima of recursively enumerable truth table degrees. **89j:03034**
Goguen, Joseph A. *see* **Moss, Lawrence S.; et al., 89e:68088**
Kummer, Martin Walter The length problem for co-r.e. sets. **89f:03033**
Lindström, Per Partially generic formulas in arithmetic. **89d:03060**
Mangani, Piero Hilbert's tenth problem. (Italian) **89i:01047**
Meseguer, José *see* **Moss, Lawrence S.; et al., 89e:68088**
Moss, Lawrence S. (*with* Meseguer, José; Goguen, Joseph A.) Final algebras, cosemicomputable algebras, and degrees of unsolvability. **89e:68088**
Németi, I. On varieties of cylindric algebras with applications to logic. **89a:03122**
Remmel, J. B. *see* **Downey, R. G.; et al., 89b:03073**
Shapiro, Stewart The Lindenbaum construction and decidability. **89e:03072**
Shore, Richard A. A noninversion theorem for the jump operator. **89k:03050**
– *see also* **Fejer, Peter A., 89j:03034**
Welch, L. V. *see* **Downey, R. G.; et al., 89b:03073**

03D30 Degrees and reducibilities

Ash, C. J. Errata to: "Recursive labelling systems and stability of recursive structures in hyperarithmetical degrees" [Trans. Amer. Math. Soc. **298** (1986), no. 2, 497–514; MR 87j:03060]. **89e:03069**
Burenin, E. A. The upper semilattice of m-degrees that are contained in complete Turing degrees. **89i:03080**

Cooper, S. Barry Enumeration reducibility using bounded information: counting minimal covers. **89a:03082**
Copestake, Kate 1-genericity in the enumeration degrees. **89i:03081**
Dēgtev, A. N. Complexity of theories of propositional logic. (Russian) **89h:03072**
Demuth, Osvald A notion of semigenericity. **89c:03072a**
— (*with* Kučera, Antonín) Remarks on 1-genericity, semigenericity and related concepts. **89c:03072b**
— Reducibilities of sets based on constructive functions of a real variable. **89c:03073**
— Remarks on the structure of tt-degrees based on constructive measure theory. **89k:03049**
Downey, R. G. Two theorems on truth table degrees. **89i:03082**
Fejer, Peter A. (*with* Shore, Richard A.) Infima of recursively enumerable truth table degrees. **89j:03034**
Han, Xiao Feng On the embedding of distributive lattices into recursive polynomial degrees. **89e:03070**
Kastanas, Ilias G. Initial segments of Δ^1_{2n+1}-degrees. **89b:03071**
Kučera, Antonín *see* **Demuth, Osvald, 89c:03072b**
Lewis, Alain A. Lower bounds on degrees of game-theoretic structures. **89i:03083**
Omanadze, R. Sh. Q-reducibility and nowhere nonsimple sets. (Russian. English and Georgian summaries) **89d:03042**
— The Q-degrees of nonspeedable sets. (Russian. English and Georgian summaries) **89d:03043**
Shore, Richard A. A noninversion theorem for the jump operator. **89k:03050**
— Defining jump classes in the degrees below $\mathbf{0}'$. **89i:03084**
— *see also* **Fejer, Peter A., 89j:03034**
Slaman, Theodore A. (*with* Steel, John R.) Definable functions on degrees. **89m:03033**
Steel, John R. *see* **Slaman, Theodore A., 89m:03033**
Thuraisingham, M. B. Reducibility relationships between decision problems for system functions. **89h:03073**
Welch, Philip Minimality in the Δ^1_3-degrees. **89e:03071**
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Chong, C. T. 1-generic degrees and minimal degrees in higher recursion theory. **89g:03062**
Demuth, Osvald (*with* Filipec, Pavel) Differentiation of constructive functions of a real variable and relative computability. **89e:03107**
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— (*with* Remmel, J. B.; Welch, L. V.) Degrees of splittings and bases of recursively enumerable subspaces. **89b:03073**
Filipec, Pavel *see* **Demuth, Osvald, 89e:03107**
Goguen, Joseph A. *see* **Moss, Lawrence S.; et al., 89e:68088**
Ko, Ker-I *see* **Book, Ronald V., 89i:68039**
Kučera, Antonín On the role of $\mathbf{0}'$ in recursion theory. **89b:03070**
Meseguer, José *see* **Moss, Lawrence S.; et al., 89e:68088**
Moss, Lawrence S. (*with* Meseguer, José; Goguen, Joseph A.) Final algebras, cosemicomputable algebras, and degrees of unsolvability. **89e:68088**
Remmel, J. B. *see* **Downey, R. G.; et al., 89b:03073**
Sorbi, Andrea On quasiminimal e-degrees and total e-degrees. **89e:03068**
Sui, Yue Fei Some results about the r.e. degrees. **89a:03081**
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Yang, Dong Ping The existence of a minimal honest polynomial degree below any recursively enumerable degree. **89i:03079**

03D35 Undecidability and degrees of sets of sentences

Delzell, Charles N. Correction to: "Note on quantifier prefixes over Diophantine equations" [Z. Math. Logik Grundlag. Math. **32** (1986), no. 5, 395–397; MR 88e:03062]. **89b:03072**
Idziak, Paweł M. Undecidability of relatively free Hilbert algebras. **89c:03074**
Kanovich, M. I. A general method for constructing concrete strongly independent propositions. **89h:03074**
Orevkov, V. P. Systems of equations in terms with substitutions. (Russian) **89j:03035**
Pheidas, Thanases An undecidability result for power series rings of positive characteristic. II. **89c:03075**
Schulz, Klaus Ulrich Undecidability of the theory of finite nearfields. **89m:03034**
Shapiro, Stewart The Lindenbaum construction and decidability. **89e:03072**
Vazhenin, Yu. M. Critical theories. **89h:03075**

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Arnborg, Stefan *see* **Tidén, Erik, 89a:68141**
Bokut′, L. A. (*with* Kukin, G. P.) Undecidable algorithmic problems for semigroups, groups and rings. (Russian) **89a:20036**
Burgess, John P. The truth is never simple. **89i:03113a**
— Addendum to: "The truth is never simple". **89i:03113b**
Dawson, John W., Jr. The reception of Gödel's incompleteness theorems [Philos. Sci. Assoc. 2 (1984)]. (*see* **89m:01068**)
Garro, Ibrahim Nonstandard models for a fragment of the arithmetic and their decision problem. **89e:03118**
Gōdel, Kurt Friedrich On formally undecidable propositions of *Principia mathematica* and related systems. I [in *From Frege to Gödel. A sourcebook in mathematical logic, 1879–1931*, 592–617, Harvard Univ. Press, Cambridge, Mass., 1967]. (*see* **89m:01068**)
— *see also* **Kleene, Stephen C.**, (**89m:01068**)
Holenderski, Leszek *see* **Szałas, Andrzej, 89i:03040**
Idziak, Paweł M. Undecidability of free pseudocomplemented semilattices. **89a:06013**
— Undecidability of free pseudocomplemented distributive lattices. **89g:06026**
Kleene, Stephen C. The work of Kurt Gödel [J. Symbolic Logic **41** (1976), no. 4, 761–778; MR **55** #12441; addendum; MR **58** #16080]. (*see* **89m:01068**)
Kolyada, K. V. Undecidability of the completeness problem for some functional systems of Kleene type. (Russian) **89e:03064**
Krishnaprasad, T. On the computability of circumscription. **89h:68136**
Kučera, Antonín On the role of $\mathbf{0}'$ in recursion theory. **89b:03070**
Kukin, G. P. *see* **Bokut′, L. A., 89a:20036**
Nabutovsky, Alexander Nonrecursive functions in real algebraic geometry. **89j:14016**
Németi, I. On varieties of cylindric algebras with applications to logic. **89a:03122**
Pałasiński, Marek No nontrivial quasivariety of BCK-algebras has decidable first order theory. **89d:06020**
Parlamento, Franco (*with* Policriti, Alberto) Decision procedures for elementary sublanguages of set theory. IX. Unsolvability of the decision problem for a restricted subclass of the Δ_0-formulas in set theory. **89e:03086**
Policriti, Alberto *see* **Parlamento, Franco, 89e:03086**
Repin, N. N. Some simply defined groups with no algorithm that recognizes decidability of equations. (Russian) **89i:20057**
(**Shanker, S. G.**) *see* **Gōdel's theorem in focus, 89m:01068**
Szałas, Andrzej (*with* Holenderski, Leszek) Incompleteness of first-order temporal logic with until. **89i:03040**
Tidén, Erik (*with* Arnborg, Stefan) Unification problems with one-sided distributivity. **89a:68141**
Valeriote, Matthew A. Decidable unary varieties. **89b:08008**

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03D40 Word problems, etc. [see also 06B25, 08A50, 20F10]

Lin, Yu Cai Relation word problems. **89k:03051**

Items with secondary classifications in 03D40

Cosmadakis, Stavros S. The word and generator problems for lattices. **89h:03069**
Culik, Karel, II (*with* Yu, Sheng) The emptiness problem for CA limit sets. **89j:68114**
Farmer, William M. A unification algorithm for second-order monadic terms. **89k:03010**
Hutchinson, George Free word problems for additive relation algebras of modules. **89g:08006**
McNaughton, Robert (*with* Narendran, Paliath; Otto, Friedrich) Church-Rosser Thue systems and formal languages. **89e:68068**
Mel′nichuk, I. L. Solvability of the problems of equality and divisibility in varieties of semigroups. (Russian) **89b:20122**
Narendran, Paliath *see* **McNaughton, Robert; et al., 89e:68068**
Orevkov, V. P. Systems of equations in terms with substitutions. (Russian) **89j:03035**
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Torgašev, Aleksandar Minimal graphs with four negative eigenvalues. **89k:05073**

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(Akiyama, J.) *see* **Proceedings: Conference on Graph Theory and Applications, 89j:05007a** *and* **89j:05007b**
(Andersen, L. D.) *see* **Graph theory in memory of G. A. Dirac, 89g:05004**

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★ Nineteenth Southeastern Conference on Combinatorics, Graph Theory, and Computing. **89j:05003**

★ Nineteenth Southeastern Conference on Combinatorics, Graph Theory, and Computing. **89j:05004**

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— ★ Proceedings of the First Japan Conference on Graph Theory and Applications. **89j:05007b**

ort Wayne, IN ★ 250th Anniversary Conference on Graph Theory. **89j:05005**

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Session:

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Proceedings of the First Japan Conference on Graph Theory and Applications ★ Proceedings of the First Japan Conference on Graph Theory and Applications. **89j:05007a**

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— ★ Kumiawase ron to sono shuhen no kenkyu. (Japanese) [Combinatorial theory and related topics] **89k:05002**

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(Escher, M. C.) *see* **Escher: art and science, 89m:00011**

(Hertz, A.) *see* **Graph colouring and variations, 89j:05038**

(Kennedy, John W.) *see* **Applications of graphs in chemistry and physics, 89j:92101**

(Penrose, Roger) *see* **Escher: art and science, 89m:00011**

(Quintas, Louis V.) *see* **Applications of graphs in chemistry and physics, 89j:92101**

(Sysło, Maciej M.) *see* **Proceedings: Conference on Combinatorial Analysis and its Applications, 89b:00025**

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05Axx Classical combinatorial problems

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Abbott, H. L. (*with* Liu, Andy C. F.) On a problem of Erdős concerning property *B*. **89a:05006**

Ahlswede, Rudolf (*with* Mörs, Michael) Inequalities for code pairs. **89e:05005**

Aigner, M. (*with* Grieser, D.) Hook-free colorings and a problem of Hanson. **89m:05001**

Altman, Tom (*with* Chrobak, Marek; Truszczyński, Mirosław) Generating k-combinations from a family of sets. **89i:05002**

Babai, László A short proof of the nonuniform Ray-Chaudhuri-Wilson inequality. **89f:05005**

Beck, József Uniformity and irregularity. **89d:05001**

Chrobak, Marek *see* **Altman, Tom; et al., 89i:05002**

Chu, Wen Chang Explicit expressions for the run polynomials. (Chinese. English summary) **89e:05006**

Clements, G. F. On multiset k-families. **89b:05002**

— Multiset antichains having minimal downsets. **89e:05007**

Deshpande, M. N. Some operators on permutations. (Not in MR)

El-Desouky, B. S. On selecting k balls from an n-line without unit separation. **89a:05007**

Erdős, P. L. (*with* Katona, G. O. H.) Convex hulls of more-part Sperner families. **89d:05002**

— (*with* Katona, G. O. H.) A 3-part Sperner theorem. **89e:05008**

Erdős, Paul (*with* Spencer, Joel) Monochromatic sumsets. **89j:05008**

Fellows, Michael R. *see* **Kleitman, D. J., 89k:05003**

Fishburn, Peter C. Combinatorial optimization problems for systems of subsets. **89i:05003**

Frankl, Peter Erdős-Ko-Rado theorem with conditions on the maximal degree. **89d:05003**

— (*with* Füredi, Z.) Solution of the Littlewood-Offord problem in high dimensions. **89m:05002**

Freiman, G. (*with* Lipkin, E.; Levitin, L.) A polynomial algorithm for constructing families of k-independent sets. **89g:05005**
Füredi, Z. (*with* Griggs, Jerrold R.; Odlyzko, A. M.; Shearer, James B.) Ramsey-Sperner theory. **89b:05003**
— *see also* **Frankl, Peter, 89m:05002**
Grieser, D. *see* **Aigner, M., 89m:05001**
Griggs, Jerrold R. Saturated chains of subsets and a random walk. **89b:05004**
— *see also* **Füredi, Z.; et al., 89b:05003**
Horák, Peter A generalization of Hall's theorem. **89e:05009**
Huang, Guo Tai The smallest size of a maximal family of subsets of a finite set, no k of which are pairwise disjoint. (Chinese. English summary) **89c:05002**
Jia, Xing De Simultaneous systems of representatives for finite families of finite sets. **89i:05004**
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Kleitman, D. J. (*with* Fellows, Michael R.) Radius and diameter in Manhattan lattices. **89k:05003**
Kreweras, Germain (*with* Moszkowski, Paul) Signatures des permutations et des mots extraits. (English summary) [Signatures of permutations and of extracted words] **89a:05008**
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Penn, Howard Lewis Ties at rotation. (Not in MR)
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Sidorenko, A. F. An infinite permutation without arithmetic progressions. **89b:05005**
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Szasz, Carol Die Zerlegung einer Permutation in ein Produkt von Potenzen $n$ter Ordnung, $n > 2$. (Romanian summary) [The decomposition of a permutation into a product of powers of nth order, $n > 2$] **89f:05007**
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Tuza, Zsolt Inequalities for two-set systems with prescribed intersections. **89b:05006**
Veni Madhavan, C. E. Properties of permutations. (*see* **89h:00004**)
Wang, E Fang Conditions and methods for expressing a permutation as a product of two cycles. (Chinese. English summary) **89j:05012**
White, Arthur T. A Hamiltonian construction in change ringing. **89i:05006**

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Anderson, Ian ★ Combinatorics of finite sets. **89b:05001**
Burosch, Gustav (*with* Laborde, Jean-Marie) Some intersection theorems for structures. **89i:05153**
Cameron, Peter J. (*with* Deza, M.; Frankl, Peter) Sharp sets of permutations. **89c:20011**
Chu, Wen Chang On the number of combinations without k-separations. (Chinese. English summary) **89c:05004**
Deza, M. *see* **Cameron, Peter J.; et al., 89c:20011**
Ding, Ke Quan The minimal pseudo-ordered partitions of random permutations. (Chinese) (Not in MR)
Dumont, Dominique (*with* Kreweras, Germain) Sur le développement d'une fraction continue liée à la série hypergéométrique et son interprétation en termes de records et anti-records dans les permutations. (English summary) [Expansion of a continued fraction associated with the hypergeometric series, and its interpretation in terms of records and antirecords in permutations] **89c:30007**
Edelman, Paul H. On inversions and cycles in permutations. **89b:05011**
Engel, Konrad (*with* Gronau, H.-D. O. F.) ★ Sperner theory in partially ordered sets. **89b:06001**
Frankl, Peter (*with* Rödl, Vojtěch) Lower bounds for Turán's problem. **89i:05038**
— *see also* **Cameron, Peter J.; et al., 89c:20011**
Griggs, Jerrold R. Problems on chain partitions. **89m:06001**
Gronau, H.-D. O. F. *see* **Engel, Konrad, 89b:06001**
Huang, Guo Tai Generalization of a theorem of Katona and Kleitman. (Chinese) **89i:05025**
Huang, Min Qiang Analysis of SG sequences. (Chinese) (Not in MR)
Huang, Tayuan An analogue of the Erdős-Ko-Rado theorem for the distance-regular graphs of bilinear forms. **89a:05084**
Hwang, F. K. (*with* Xu, Yong Hua[2]) Group testing to identify one defective and one mediocre item. **89c:90063**
Jackson, D. M. Counting semiregular permutations which are products of a full cycle and an involution. **89b:05013**
Jiang, Mao Sen A simple derivation for the number of combinations without unit separations. (Chinese. English summary) **89e:05014**
Koval'chuk, È. O. V-rings of semigroups of transformations of finite sets. (Ukrainian. Russian summary) **89c:20097**
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Longtin, André Une combinatoire noncommutative pour l'étude des nombres secant. (English summary) [A noncommutative combinatorics for the study of secant numbers] **89e:05016**
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Moszkowski, Paul A solution to a problem of Dénes: a bijection between trees and factorizations of cyclic permutations. **89k:05030**
Niemenmaa, Markku Upper bounds on the distance between groups and quasigroups. **89f:20080**
Radziszowski, Stanisław P. (*with* Kreher, Donald L.) Solving subset sum problems with the L^3 algorithm. **89i:11142**
Reutenauer, Christophe Theorem of Poincaré-Birkhoff-Witt, logarithm and symmetric group representations of degrees equal to Stirling numbers. **89i:05029**
Rödl, Vojtěch *see* **Frankl, Peter, 89i:05038**
Stong, Richard Some asymptotic results on finite vector spaces. **89c:05007**
Stoyan, Yu. G. (*with* Yakovlev, S. V.) Optimization of coverings by translations of bounded sets. (Russian. English summary) **89k:90107**
Werner, Frank Ein adaptives stochastisches Suchverfahren für spezielle Reihenfolgeprobleme. (English and Czech summaries) [An adaptive stochastic search procedure for special sequencing problems] **89f:90196**
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05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65]

Ando, Shiro A triangular array with hexagon property, dual to Pascal's triangle. **89i:05007**
Ayoub, Ayoub B. The harmonic triangle and the beta function. **89i:05008**
Bowman, K. O. (*with* Shenton, L. R.) Sums of powers of binomial coefficients. **89g:05006**
Chellali, Mustapha Accélération de calcul de nombres de Bernoulli. [Acceleration of the calculation of Bernoulli numbers] **89h:05002**
De Mari, Filippo (*with* Shayman, Mark A.) Generalized Eulerian numbers and the topology of the Hessenberg variety of a matrix. **89i:05009**
Fixman, Uri Sums of multinomial coefficients. **89e:05010**
Hilton, Peter (*with* Pedersen, Jean) Looking into Pascal's triangle: combinatorics, arithmetic, and geometry. **89i:05010**
Imai, Yasuyuki (*with* Setō, Yasuo; Tanaka, Shōtarō; Yutani, Hiroshi) An expansion of x^m and its coefficients. **89b:05007**
Labahn, Roger More on a relation between binomial coefficients. **89k:05004**
Li, Zhong Lai The application of Pascal's triangle in indefinite integration. (Chinese) **89m:05004**
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Olive, Gloria A special class of infinite matrices. **89b:05008**
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Pickert, Günter Ungeordnete Stichproben mit Zurücklegen als monotone Abbildungen. [Unordered samples with replacement as monotone mappings] **89k:05005**
Poonen, Bjorn Periodicity of a combinatorial sequence. **89g:05007**
Rangaswamy, S. V. Algorithmic combinatorics. **89j:05013**
Razpet, Marko Stirling numbers of the second kind. (Slovenian. English summary) **89i:05012**
Sagan, Bruce E. Inductive and injective proofs of log concavity results. **89b:05009**
Senato, Domenico (*with* Venezia, Antonietta M.) Polynomial species and connections among bases of the symmetric polynomials. **89d:05004**
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Székely, L. A. The analytic behavior of the holiday numbers. **89m:05005**
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Tanny, S. M. A note on an identity involving binomial and multinomial coefficients. **89i:05013**
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Wang, Du Zheng (*with* Shan, Zun) The properties of a class of combinatorial numbers and their applications. (Chinese) (Not in MR)
Yutani, Hiroshi *see* **Imai, Yasuyuki; et al., 89b:05007**

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Bondarenko, B. A. Distribution of multinomial coefficients modulo p. (Russian) **89c:11032**
Chu, Wen Chang On the number of combinations without k-separations. (Chinese. English summary) **89c:05004**
Cigler, J. Some remarks on Catalan families. **89a:05010**
DeTemple, Duane (*with* Jones, C. H.; Robertson, Jack) A correction for a lattice path counting formula. **89i:05017**
Edwards, A. W. F. ★ Pascal's arithmetical triangle. **89e:01020**
Fischer, Klaus G. Symmetric polynomials and Hall's theorem. **89c:05057**
Gillis, J. (*with* Jedwab, J.; Zeilberger, Doron) A combinatorial interpretation of the integral of the product of Legendre polynomials. **89i:33015**
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de Sainte-Catherine, Myriam (*with* Viennot, Gérard) Enumeration of certain Young tableaux with bounded height. **89b:05018**
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Zeilberger, Doron A q-Foata proof of the q-Saalschütz identity. **89f:05022**
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05A15 Combinatorial enumeration problems, generating functions

Abhyankar, Shreeram S. ★ Enumerative combinatorics of Young tableaux. **89e:05011**

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Amel'kin, V. A. Generalized problems of the enumeration of monotone sequences of the first kind. (Russian) **89g:05008**

Apostol, Tom M. Binary vectors with prescribed subsets of consecutive ones. **89b:05010**

Barvinok, A. I. Symmetric systems of linear inequalities and G-invariant polyhedra. (Russian) **89f:05008**

Beker, Henry (*with* Mitchell, Chris) Permutations with restricted displacement. **89f:05009**

Bender, Edward A. (*with* Wormald, Nicholas C.) The number of rooted convex polyhedra. **89g:05009**

Bergeron, François (*with* Reutenauer, Christophe) Une interprétation combinatoire des puissances d'un opérateur différentiel linéaire. (English summary) [A combinatorial interpretation of the powers of a linear differential operator] **89h:05003**

— Une combinatoire du pléthysme. [A combinatorics of plethysm] **89b:05017**

Betten, Dieter Kalahari and the sequence "Sloane No. 377". **89f:05010**

Bollobás, B. Sorting in rounds. **89k:05006**

Boros, Endre (*with* Füredi, Z.) Rectangular dissections of a square. **89i:05014**

Bressoud, D. M. Definite integral evaluation by enumeration, partial results in the Macdonald conjectures. **89f:05011**

Butler, Lynne M. Rational generating functions for enumerating chains of partitions. **89m:05006**

Cameron, Peter J. Some treelike objects. **89a:05009**

Chang, S. J. *see* **Lin, K'ê Ying, 89i:05022**

Chao, Chong-Yun On Pólya-de Bruijn's theorem. **89i:05015**

Chu, Wen Chang Counting alternating arrangements and multiple runs. (Chinese. English summary) **89m:05007**

— On the number of combinations without k-separations. (Chinese. English summary) **89c:05004**

Cigler, J. Some remarks on Catalan families. **89a:05010**

Cohen, Paula S. (*with* Regev, Amitai) On maximal degrees for Young diagrams. **89i:05016**

Dale, M. R. T. (*with* Narayana, T. V.) The number of decision sets involving n means. **89a:05011**

David, Karl Rencontres reencountered. **89e:05012**

Delest, M.-P. Generating functions for column-convex polyominoes. **89e:05013**

DeTemple, Duane (*with* Jones, C. H.; Robertson, Jack) A correction for a lattice path counting formula. **89i:05017**

Edelman, Paul H. On inversions and cycles in permutations. **89b:05011**

Fabrykowski, J. (*with* Subbarao, M. V.) Note on a problem of Erdős-Moser. **89i:05018**

Foata, Dominique (*with* Zeilberger, Doron) Laguerre polynomials, weighted derangements, and positivity. **89m:05008**

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Murphy, Gwendolen (*with* Peel, Michael) Representations of symmetric groups by bad shapes. **89f:20018**
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Stembridge, John R. Rational tableaux and the tensor algebra of gl_n. **89a:05012**
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Węglorz, B. A note on automorphisms and partitions. **89i:04002**
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Yang, Kung-Wei q-polynomial coefficients. **89f:05021**

05A19 Combinatorial identities

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— Application of SCRATCHPAD to problems in special functions and combinatorics. **89c:05010**
— (*with* Goulden, I. P.; Jackson, D. M.) Generalizations of Cauchy's summation theorem for Schur functions. **89m:05009**
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Hirschhorn, M. D. A generalisation of the quintuple product identity. **89a:05019**
Jackson, D. M. *see* **Andrews, G. E.; et al., 89m:05009**
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Mokronosov, V. S. A trinomial formula. (Russian) **89e:05022**
Pethe, S. Some identities for Tribonacci sequences. **89e:05023**
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Robbins, David P. *see* **Mills, W. H.; et al., 89c:05011**
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Shao, Zheng Zi A note on the proof of a theorem of Gupta. (Chinese) (Not in MR)
Shi, He The Shan Lan Li coefficients and Newcomb's problem. (Chinese. English summary) **89b:05023**
Tsylova, E. G. Combinatorial identities and Pólya walks. **89i:05036**
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— *see also* **Subbarao, M. V., 89g:11095**
Agoh, Takashi On Bernoulli numbers. I. **89c:11034**
Ando, Shiro A triangular array with hexagon property, dual to Pascal's triangle. **89i:05007**
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05A30 q-calculus and related topics [see also 33–XX]

Abdi, Wazir Hasan On bibasic analogues of Ramanujan's results. **89i:05039**

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— (*with* Stanton, Dennis) On the Askey-Wilson and Rogers polynomials. **89m:33003**

— (*with* Muldoon, Martin E.) On the variation with respect to a parameter of zeros of Bessel and q-Bessel functions. **89i:33011**

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Kadell, Kevin W. J. A proof of some q-analogues of Selberg's integral for $k = 1$. **89h:33006a**

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Mimachi, Katsuhisa A proof of Ramanujan's identity by use of loop integrals. **89i:33020**

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05A40 Umbral calculus

Cholewinski, Frank M. ★ The finite calculus associated with Bessel functions. **89m:05013**

Domingues, Hygino H. Some applications of umbral algebra to combinatorics. (Portuguese. English summary) **89h:05010**

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Schwartz, Art J. Subdividing Bézier curves and surfaces. (*see* **89b:65010**)
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u, Li Zhi Generalized Möbius inversion with applications to integral equations and interpolation process. **89f:03066**

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Alekseevskaya, T. V. (*with* Gel′fand, I. M.; Zelevinskiĭ, A. V.) Distribution of real hyperplanes and the partition function connected with it. **89m:05014**
Beck, József Balanced two-colorings of finite sets in the cube. **89i:05040**
Behrendt, Gerhard Equivalence structures and their automorphisms. **89e:05024**
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Christen, Claude A. (*with* Hwang, F. K.) Detecting the two complementary defectives with a balance scale. **89a:05023**
Greely, Joseph W. The length of a three-number game. **89e:05025**
Ding, Da Gong (*with* Ji, Hui Kang) A general discussion on multikey problems. (Chinese) **89k:05015**
Faradzhev, I. A. Cellular subrings of the symmetric square of a cellular ring of rank 3. (Russian) **89c:05013**
Frankl, Peter (*with* Graham, R. L.; Rödl, Vojtěch) Quantitative theorems for regular systems of equations. **89d:05020**
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Landman, Bruce M. (*with* Greenwell, Raymond N.) Values and bounds for Ramsey numbers associated with polynomial iteration. **89d:05021**
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Seress, Ákos Quick gossiping by conference calls. **89d:05022**
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Yucas, Joseph Generalized Hilbert fields, quaternion algebra structure and block design counting. **89e:11020**
— *see also* **Fitzgerald, Robert, 89c:11058**
Zieschang, Paul-Hermann Flag transitive automorphism groups of 2-designs with $(r,\lambda)=1$. **89i:20011**

05B07 Steiner triple systems

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Fu, Hêng Lin A note on the block intersection problem of Steiner quadruple systems of order $u\cdot v$. **89b:05045**
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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

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— More missing entries in Lander's table could be filled. **89i:05055**
— Another variation of Wilbrink's theorem. **89m:05020**
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Lander, Eric S. Restrictions upon multipliers of an abelian difference set. **89e:05043**
Löwe, Stefan On multiplier theorems of relative quotient sets. **89a:05034**
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— A note on nonabelian planar difference sets. **89e:05044**
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— Critical perfect systems of difference sets with components of odd size. **89m:05022**
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05B15 Orthogonal arrays, Latin squares, Room squares

Andersen, L. D. (*with* Hilton, A. J. W.) The existence of symmetric Latin squares with one prescribed symbol in each row and column. **89a:05035**

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— (*with* Das, Premadhis) Construction of grouped arrays. **89i:62128**

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— Semi-Latin squares. **89b:62160**

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05B20 Matrices (incidence, Hadamard, etc.)

Bhat-Nayak, Vasanti N. (*with* Ito, Noboru; Wirmani-Prasad, Anjana) Some new Hadamard matrices. **89b:05053**

Bol'shakov, V. I. The spectrum of the permanent on Λ_n^k. (Russian) **89m:05028**

Brualdi, Richard A. (*with* Solheid, Ernie S.) Some extremal problems concerning the square of a (0, 1)-matrix. **89f:05043**

— (*with* Li, Qiao) On the combinatorial compound matrix. **89i:05063**

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Frankl, Peter (*with* Rödl, Vojtěch; Wilson, R. M.) The number of submatrices of a given type in a Hadamard matrix and related results. **89f:05044**

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McKay, James H. (*with* Wang, Stuart Sui Sheng) On a theorem of Brualdi and Newman. **89b:05055**

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Pullman, Norman J. (*with* Stanford, Miriam) Singular (0, 1) matrices with constant row and column sums. **89e:05050**

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05B25 Finite geometries [see also 51D20, 51Exx]

Berardi, Luigia Blocking sets in the large Mathieu designs. I. The case $S(3, 6, 22)$. **89b:05056**

— (*with* Eugeni, Franco) Blocking sets in the projective plane of order four. **89b:05057**

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06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–01 Elementary exposition; textbooks

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06–02 Advanced exposition (research surveys, monographs, etc.)

(Kandall, G. A.) *see* **Salii, V. N.**, **89a:06001**
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06–06 Proceedings, conferences, etc.

(Salii, V. N.) *see* **Ordered sets and lattices**, **89a:06002** *and* **89c:06001**

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— ★ Упорядоченные множества и решетки. Вып. 9. (Russian) [Ordered sets and lattices. No. 9] **89c:06001**

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06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

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06Exx Boolean algebras [see also 03G05]

06E05 Structure theory

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Ding, Ke Quan On the perfect Sperner classification of the finite Boolean algebras. (Chinese. English summary) **89k:06012**
Liang, Po The relative structure of the denumerable nonatomic Boolean algebras satisfying $\forall A_0 \in PA(\bigvee A_0, \bigvee(A - A_0) \notin B \rightarrow G_{A_0} = \varnothing)$ and research on the structure of the denumerable nonatomic Boolean algebras. (Chinese) **89e:06014**
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Pal'chunov, D. E. Finitely axiomatizable Boolean algebras with distinguished ideals. (Russian) **89k:03041**
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Taylor, Alan D. The cardinality of reduced power set algebras. **89c:03078**
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Zbierski, P. *see* **Frankiewicz, Ryszard, 89i:03098**

06E10 Chain conditions, complete algebras

Takahashi, Makoto Completeness of Boolean powers of Boolean algebras. **89i:06023**

06E15 Topological representation

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D'Aquino, Paola *see* **Bernardi, Claudio, 89i:03114**
Dow, A. (*with* Gubbi, A.V.; Symański, Andrzej) Rigid Stone spaces within ZFC. **89d:54028**
Gubbi, A.V. *see* **Dow, A.; et al., 89d:54028**
Iwiński, Tadeusz B. Algebraic approach to rough sets. (Russian summary) **89g:04002**
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06E20 Boolean rings [see also 16A30, 16A32]

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Pérez Carrillo de Albornoz, Ma. Luisa *see* **Blanco Martín, Ma. Francisca, 89k:54113**
Quadri, Murtaza A. (*with* Ashraf, Mohd.) Commutativity of generalized Boolean rings. **89j:16049**
Suenaga, Takashi A generalization of Boolean rings. (*see* **89a:20001**)

06E30 Boolean functions

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Liu, Yong Cai Construction and counting of generalized Boolean functions. **89f:06025**
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Chetverikov, G. G. (*with* Kirilenko, T. V.) A generalized method for minimizing the totality of finite predicates. (Russian) **89b:03101**
Chimev, K. N. (*with* Gyudzhenov, I. D.) Functions with three strongly essential variables. (Bulgarian. English and Russian summaries) **89e:04001**
Chukhrov, I. P. *see* **Sapozhenko, A. A., 89d:94061**
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— (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. II. (Chinese. English summary) **89k:90110b**
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— *see also* **Crama, Y.; et al., 89e:90141**
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Iwama, Kazuo Complementary approaches to CNF Boolean equations. **89a:03075**
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Kogan, A. Yu. On the disjunctive normal forms of Boolean functions with a small number of zeros. (Russian) **89e:94025**
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— Comparison of Boolean bases. **89j:94050**
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Touraille, Alain Heyting* algebras, topological Boolean algebras and P.O. systems. **89a:06029**
Wesołowski, T. Subdirectly irreducible locally Boolean algebras. **89j:06012**

06Fxx Ordered structures [see also 22A26, 54F05]

06F05 Ordered semigroups [see also 20Mxx]

Beĭlis, M. V. On stable quasi-orders on some semigroups of transformations. (Russian) **89d:06026**
Beynon, M. Free constructions in ordered abelian monoids and groups. **89d:06027**
Fleischer, Isidore Abstract Prüfer ideal theory. **89e:06015**
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Koldunov, A. V. (<)-Dedekind extensions of ordered semigroups and groups. (Russian) **89d:06028**
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Cuninghame-Green, R. A. (*with* Burkard, Rainer E.) Saddlepoints in group and semigroup minimization. **89h:90184**
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Rosenthal, K. I. *see* **Niefield, S. B., 89f:18003**
Stamenković, Blagoje (*with* Protić, Petar V.) The natural partial order on an *r*-cancellative semigroup. (Serbo-Croatian summary) **89g:20095**
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T″rkalanov, Krasimir D. Words in a strong normal form, stable congruence in a free semigroup and topological sorting. (Russian) (*see* **89j:68011**)

06F10 Noether lattices

Anderson, D. D. *see* **Nakkar, H. M., 89g:06034**
Becerra, Linda Tidy Noether lattices. **89a:06038**
— On prime divisors of large powers of elements in Noether lattices. **89i:06025**
Maeda, Shûichirô *see* **Thakare, N. K.; et al., 89k:06013**
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Nakkar, H. M. (*with* Anderson, D. D.) Associated and weakly associated prime elements and primary decomposition in lattice modules. **89g:06034**
Thakare, N. K. (*with* Manjarekar, C. S.; Maeda, Shûichirô) Abstract spectral theory. II. Minimal characters and minimal spectrums of multiplicative lattices. **89k:06013**

06F15 Ordered groups [see also 20F60]

Cohn, P. M. On coproducts of ordered systems. **89d:06030**
Dimitrov, Z. Ĭ. Absolutely convex subgroups of rigidly directed ordered groups. (Bulgarian. English and Russian summaries) **89e:06016**
— Directed ordered groups with the interpolation property. II. (Bulgarian. English and Russian summaries) **89f:06027**
Glass, A. M. W. Free products of lattice-ordered groups. **89b:06010**
Holland, W. C. (*with* Reilly, N. R.) Structure and laws of the Scrimger varieties of lattice-ordered groups. **89a:06039**
— (*with* Mekler, Alan H.; Reilly, N. R.) Varieties of lattice-ordered groups in which prime powers commute. **89a:06040**
— (*with* Reilly, N. R.) Metabelian varieties of *l*-groups which contain no nonabelian *o*-groups. **89b:06011**
— (*with* Smith, Dwight P.) Irrational ordered groups. **89i:06026**

Jakubík, Ján (*with* Pringerová, Gabriela) Representations of cyclically ordered groups. (Russian and Slovak summaries) **89f:06028**
— Closure operators on the lattice of radical classes of lattice ordered groups. **89b:06012**
— Weak isometries of lattice ordered groups. (Russian summary) **89f:06029**
Kalhoff, Franz Zur Vervollständigung natürlich angeordneter Cartesischer Gruppen. (English summary) [On the completion of naturally ordered Cartesian groups] **89d:06031**
Koldunov, A. V. Some order properties of the o-completion of an Archimedean l-group. (Russian) (*see* **89a:06002**)
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Petrova, Nadezhda L. Strictly convex subgroups. (Bulgarian. English and Russian summaries) **89j:06013**
— *see also* **Todorinov, S., 89m:06021**
Powell, Wayne B. (*with* Tsinakis, Constantine) Sets of disjoint elements in free products of lattice-ordered groups. **89g:06035**
Pringerová, Gabriela *see* **Jakubík, Ján, 89f:06028**
Reilly, N. R. *see* **Holland, W. C., 89a:06039, 89a:06040** *and* **89b:06011**
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Todorinov, S. (*with* Petrova, Nadezhda L.) On L. Fuchs's semigroup condition concerning the linear orderability of a group. (Russian) **89m:06021**
Tong, Dao Rong Complete distributivity of an l-group. **89f:06031**
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Vankoff, Valentin Certain partial orders on groups. (Bulgarian summary) **89d:06032**
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Dubrovin, N. I. Invertibility of the group ring of a right-ordered group over a division ring. (Russian) **89a:16012**
Helbig, Siegfried On Carathéodory's and Krein-Milman's theorems in fully ordered groups. **89g:46118**
Jakubík, Ján On summability in convergence l-groups. (Russian and Slovak summaries) **89i:06027**
Koldunov, A. V. $(<)$-Dedekind extensions of ordered semigroups and groups. (Russian) **89d:06028**
Sales, Francisco de A. Vallés On ordered structures. (Catalan. English summary) **89a:06010**
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Zouakia, Fouad Semi-groupes réels dans les algèbres de Banach commutatives. [Real semigroups in commutative Banach algebras] **89c:46067**

06F20 Ordered abelian groups, ordered linear spaces [see also 46A40]

Ball, R. N. (*with* Hager, A. W.) Archimedean kernel distinguishing extensions of Archimedean l-groups with weak unit. **89m:06022**
Bastos, Gervasio G. A new class of ordered abelian groups which are not groups of divisibility. (French summary) **89e:06017**
Hager, A. W. *see* **Ball, R. N., 89m:06022**
Harminc, Matúš Cardinality of the system of all sequential convergences on an abelian lattice ordered group. **89h:06007**
Hoo, C. S. *see* **Shum, K. P., 89k:06014**
Jakubík, Ján On summability in convergence l-groups. (Russian and Slovak summaries) **89i:06027**
— Unequivocal linearly ordered groups. **89f:06033**
— K-radical classes of abelian linearly ordered groups. (Russian summary) **89f:06034**
Jasem, Milan Pairs of partially ordered groups with the same convex subgroups. (Russian summary) **89d:06033**
Koldunov, A. V. Cantor-type completions of vector lattices. (Russian) **89g:06036**
Lacava, Francesco On classes of algebraically closed L-algebras and abelian l-groups. (Italian. English summary) **89a:06041**
Luce, R. Duncan Measurement structures with Archimedean ordered translation groups. **89a:06042**
Mundici, Daniele Free products in the category of abelian l-groups with strong unit. **89b:06008**
Oger, Francis An example of two nonisomorphic countable ordered abelian groups with isomorphic lexicographical squares. **89m:06023**
Redfield, R. H. The dual space of a totally ordered abelian group. **89b:06013**
Shum, K. P. (*with* Hoo, C. S.) A note on commutative l-groups. **89k:06014**
Veldsman, Stefan A remark on radical-semisimple classes of fully ordered groups. **89d:06034**

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Du, Yi Hong Total order minihedral cones. (Chinese. English summary) **89i:46022**
Filter, Wolfgang Inductive limits of Riesz spaces. **89k:46008**
Lassak, Marek (*with* Prószyński, Andrzej) Algebraic and geometric approach to the classification of semispaces. **89f:52001**
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— Farey stellar subdivisions, ultrasimplicial groups, and K_0 of AF C^*-algebras. **89d:46072**
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Peck, N. T. (*with* Talagrand, Michel) Banach sublattices of weak L_1. **89a:46045**
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Trias Pairó, J. Lattice-isometries in f-rings. **89d:06037**

Wilhelm, M. Integral extension procedures in weakly σ-complete lattice-ordered groups. II. **89k:28007**

06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16A86.}

Ciesielski, K. A short ordered commutative domain whose quotient field is not short. **89d:06035**
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Medvedev, N. Ya. On the theory of lattice-ordered rings. (Russian) **89a:06043**
Redfield, R. H. Nonembeddable o-rings. **89k:06015**
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Trias Pairó, J. Lattice-isometries in f-rings. **89d:06037**

Items with secondary classifications in 06F25

Dow, A. (*with* Henriksen, M.; Kopperman, Ralph; Vermeer, J.) The space of minimal prime ideals of $C(X)$ need not be basically disconnected. **89i:54024**
Hebisch, U. (*with* van Leeuwen, L. C. A.) On additively or multiplicatively idempotent semirings and partial orders. **89g:16046**
Henriksen, M. *see* **Dow, A.; et al., 89i:54024**
Kalhoff, Franz Eine Kennzeichnung anordnungsfähiger Ternärkörper. (English summary) [A characterization of orderable ternary fields] **89j:51013**
Kopperman, Ralph *see* **Dow, A.; et al., 89i:54024**
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06F30 Topological lattices, order topologies [see also 06B30, 54F05, 54H12]

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Nikiel, J. Topologies for acyclic partially ordered sets. **89b:06015**
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Hu, Shi Geng Full normality of uniform lattices. (Chinese. English summary) **89a:54046**
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Fishburn, Peter C. (*with* Roberts, Fred S.) Unique finite conjoint measurement. **89h:92074**
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08–XX General mathematical systems

08–01 Elementary exposition; textbooks

Items with secondary classifications in 08–01

(Andrianova, Maria A.) *see* **Gorbatov, V. A., 89i:00002**
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Bakhturin, Yu. A. (*with* Ol′shanskiĭ, A. Yu.) Identities. (Russian) **89j:08001**
Cao, Zhi Qiang (*with* Kim, Ki Hang; Roush, F. W.) ★ Incline algebra and applications. **89b:08001**
Kim, Ki Hang *see* **Cao, Zhi Qiang; et al., 89b:08001**
Ol′shanskiĭ, A. Yu. *see* **Bakhturin, Yu. A., 89j:08001**
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Budkin, A. I. *see* **Bakhturin, Yu. A.; et al., 89c:17001**
Hobby, David (*with* McKenzie, Ralph) ★ The structure of finite algebras. **89m:08001**
McKenzie, Ralph *see* **Hobby, David, 89m:08001**
Volokov, M. V. *see* **Bakhturin, Yu. A.; et al., 89c:17001**

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Contemporary Mathematics *see* **Hobby, David, 89m:08001**

08–03 Historical (must also be assigned at least one classification number from Section 01)

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(De Morgan, Augustus) *see* **Richards, Joan L., 89f:01040**
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08Axx Universal algebra [see also 03C05]

08A02 Relational systems, laws of composition

Beidar, K. I. (*with* Mīkhal′ov, A. V.) Uniform boundedness almost everywhere for orthogonally complete algebraic systems. (Ukrainian. Russian summary) (Not in MR)
Mīkhal′ov, A. V. *see* **Beidar, K. I., (Not in MR)**
Zhang, Shi Sheng Basic theory and applications of probabilistic metric spaces. I. **89e:08001**

Items with secondary classifications in 08A02

Bandler, Wyllis (*with* Kohout, Ladislav J.) On the general theory of relational morphisms. **89d:04001**
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Dijkstra, Edsger W. On binary operators and their derived relations. **89m:04001**
Florescu, Liviu C. A p-complete Menger structure for distribution functions space. **89m:54044**
Goleţ, I. On common fixed points in probabilistic metric spaces. (Romanian summary) **89d:54035**
— On mappings with a common fixed point in Menger spaces. (Romanian summary) **89e:54091**
Holzer, Silvano (*with* Sempi, Carlo) A remark on metrics for finitely additive distribution functions. **89c:60015**
Kohout, Ladislav J. *see* **Bandler, Wyllis, 89d:04001**
Liu, Zuo Shu The embedded theorem and its application to statistical metric space. (Not in MR)
Luce, R. Duncan Measurement structures with Archimedean ordered translation groups. **89a:06042**
Pant, B. D. Common fixed points of family of mappings in Menger spaces. **89f:54089**
Prešić, Marica D. A generalization of equivalence relations. **89e:04005**
Sempi, Carlo Orlicz metrics for weak convergence of distribution functions. (Italian summary) **89b:46040**
— *see also* **Holzer, Silvano, 89c:60015**
Stojaković, Mila On some classes of contraction mappings. **89f:54097**
Yin, Ri Xiu (*with* Zhao, Zhen Fan) Relative precompactness and relative compactness of probabilistic metric spaces. (Chinese. English summary) **89k:54075**
Zeng, Wen Zhi Probabilistic 2-metric spaces. (Chinese) **89b:54053**
Zhang, Shi Sheng Probabilistic normed linear spaces and stochastic operators. (Chinese) **89e:47058**
— Basic theory and applications of probabilistic metric spaces. II. **89i:54043**
Zhao, Zhen Fan *see* **Yin, Ri Xiu, 89k:54075**
Zheng, Quan Convergence and a separation property in Menger spaces. (Chinese. English summary) **89k:54077**

08A05 Structure theory

Bergman, Clifford Saturated algebras in filtral varieties. **89e:08002**
Both, N. *see* **Purdea, I., 89m:08002**
Florya, R. S. (*with* Ryabukhin, Yu. M.) An absolutely free strictly regular algebra of rank one. (Russian) **89d:08001**
Głazek, K. (*with* Michalski, Jacek; Sierocki, I.) Feedback transformation for universal algebras. **89d:08002**
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McKenzie, Ralph *see* **Hobby, David, 89m:08001**
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Omarov, A. I. On B-splittable algebras. (Russian) **89g:08001**
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Rosenberg, I. G. (*with* Schweigert, Dietmar) Almost unanimity operations. **89f:08002**
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Draškovičová, Hilda Weak direct product decomposition of algebras. **89c:08001**
Harrison, Tom A problem concerning the lattice varietal product. **89e:06007**
Ionin, V. K. Structures that can be generated by sets of morphisms. (Russian) **89e:18008**
Levitz, Hilbert (*with* Nichols, Warren) On extending endomorphisms to automorphisms. **89i:08003**
Márki, L. (*with* Mlitz, R.; Wiegandt, R.) A general Kurosh-Amitsur radical theory. **89h:18007**
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08A30 Subalgebras, congruence relations

Almeida, Jorge Residually finite congruences and quasiregular subsets in uniform algebras. (Portuguese) **89f:08004**
Bonetti, Flavio (*with* Civolani, Nino) On the product of two tolerances. (Italian summary) **89g:08002**
Chajda, Ivan Examples of local uniformity of congruences. **89i:08001**
— Tolerances in congruence permutable algebras. **89f:08005**
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— (*with* Zelinka, B.) Tolerances and congruences on implication algebras. **89k:08001**
— The egg-box property of congruences. (Russian summary) **89m:08003**
Civolani, Nino *see* **Bonetti, Flavio, 89g:08002**
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Schweigert, Dietmar Tolerances and commutators on lattices. **89b:08003**
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Andréka, Hajnal On taking subalgebras of relativized relation algebras. **89g:03092**
Bloom, Stephen L. (*with* Tindell, Ralph) A note on zero-congruences. **89e:18011**
Both, N. Tolerances in logic. (Romanian summary) **89h:03011**
Chajda, Ivan A localization of some congruence conditions in varieties with nullary operations. **89a:08006**
— On the one principal congruence identity. **89a:08007**
Demlová, Marie (*with* Koubek, Václav) Minimal congruences and coextensions in semigroups. **89i:20091**
Duda, Jaromír Mal′cev conditions for varieties of subregular algebras. **89d:08007**
— Unified polynomials for congruence principality. (Russian summary) **89h:08001**
Fried, Ervin On the behaviour of congruence-functors. **89a:18005**

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Koubek, Václav *see* **Demlová, Marie, 89i:20091**

Petrich, Mario Congruences on strong semilattices of regular simple semigroups. **89c:20093**

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Vazhenin, Yu. M. (*with* Sizyĭ, S. V.) Quasivarieties of endomodels. **89e:08003**

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Zhitomirskiĭ, G. I. Some remarks on the properties of lattices generated by dual atoms. (Russian) **89g:06022**

08A35 Automorphisms, endomorphisms

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Goberstein, Simon M. Correspondences of semigroups. **89e:20114**

Luce, R. Duncan Measurement structures with Archimedean ordered translation groups. **89a:06042**

Michler, Lothar Über die halbgeordnete Kategorie der partiellen Endomorphismen einer Algebra. [On the semi-ordered category of partial endomorphisms of an algebra] **89j:18006**

Płonka, Ernest Remarks on weak automorphisms of 1-unary algebras. **89e:08005**

08A40 Operations, polynomials, primal algebras

Burris, S. Primitive positive clones which are endomorphism clones. **89a:08002b**

— (*with* Willard, R.) Finitely many primitive positive clones. **89a:08002a**

Demetrovics, János (*with* Hannák, L.; Rónyai, Lajos) On monotone clones. **89f:08008**

Denecke, Klaus A note on 3-distributivity of preprimal algebras. (German and Russian summaries) **89d:08003**

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— (*with* Pöschel, Reinhard) A characterization of Sheffer functions by hyperidentities. **89g:08004**

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Kisielewicz, Andrzej Characterization of p_n-sequences for nonidempotent algebras. **89a:08003**

Lau, Dietlinde Maximale Klassen von $P_k(l)$. [Maximal classes of $P_k(l)$] **89k:08002**

Micale, Biagio On the centralizer of the system of operations of certain algebras. (Italian. English summary) **89g:08005**

Pkhakadze, Nino Polynomials of conditional algebras. **89f:08012**

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Denecke, Klaus Varieties and quasivarieties, generated by two-element preprimal algebras, and their equivalences. **89i:08011**

Downey, R. G. (*with* Remmel, J. B.) Automorphisms and recursive structures. **89a:03084**

Guillaume, Marcel Constantes d'une algèbre monadique libre sur une algèbre de Boole et automorphismes préservant une partie génératrice de celle-ci. [Constants of a free monadic algebra over a Boolean algebra and automorphisms preserving a set of generators of the Boolean algebra] **89f:03059**

Kartashov, S. I. Finiteness of the number of closed classes in $\langle P_k, \tilde{P}_k\rangle$. (Russian) **89f:03017**

Lee, Sin-Min A class of Sheffer functions obtained by Δ-composition of functions. **89i:03047**

Meshchaninov, D. G. Some conditions for the representability of functions from P_k by polynomials modulo k. **89g:03033**

Nipkow, Tobias Unification in primal algebras. **89h:68104**

Pinus, A. G. Simple countable epimorphism skeletons of congruence-distributive varieties. (Russian) **89b:08007**

Remmel, J. B. *see* **Downey, R. G., 89a:03084**

08A45 Equational compactness

Items with secondary classifications in 08A45

Nauryzbaev, K. A. The 2-equational compactness of distributive lattices. (Russian) **89c:06012**

— On equationally compact distributive lattices. (Russian) **89a:06023**

Prószyński, Andrzej ★ Odwzorowania wyższych stopni. (Polish) [Higher-order mappings] **89b:15043**

08A50 Word problems [see also 03D40, 20F10]

Hutchinson, George Free word problems for additive relation algebras of modules. **89g:08006**

Items with secondary classifications in 08A50

Book, Ronald V. Thue systems and the Church-Rosser property: replacement systems, specification of formal languages, and presentations of monoids. **89a:03072**

Farmer, William M. A unification algorithm for second-order monadic terms. **89k:03010**

Latishev, V. M. An algorithm for equality in Lie nilpotent associative algebras. (Ukrainian. Russian summary) **89f:17010**

Ryzhikova, Yu. S. Decidability of the identity recognition problem in lattices of linear subspaces. **89g:06024**

08A55 Partial algebras

Bartol, W. (*with* Niwiński, D.; Rudak, Leszek) Semi-isomorphism vs. isomorphism of inner extensions of a partial algebra. **89j:08002**

— (*with* Niwiński, D.; Rudak, Leszek) The semilattice of inner extensions of a partial algebra. **89j:08003**

Burmeister, Peter (*with* Wojdyło, Bolesław) Properties of homomorphisms and quomorphisms between partial algebras. I. **89c:08003**

Fleischer, Isidore Equational classes of partial algebras. **89c:08004**

Jakubíková-Studenovská, Danica On completions of partial monounary algebras. **89i:08005**

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Wojdyło, Bolesław Interpolation in universal (partial) algebras. **89f:08010**

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Jarzembski, Grzegorz Finitary spectral algebraic theories. **89g:18013**

Lyapin, E. S. Partial groupoids of closure transformations. (Russian) **89d:06004**

08A60 Unary algebras

Khusainov, B. M. Strongly effective unars and nonautoequivalent constructivizations. (Russian) **89g:08007**

Płonka, Ernest Remarks on weak automorphisms of 1-unary algebras. **89e:08005**

Sizyĭ, S. V. Finitely approximable unars. **89e:08006**

Tasić, Vladimir On single-law definitions of groups. **89a:08004**

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Ivanov, Aleksandr Anatol'evich Simple existentially closed extensions of unoids. (Russian) **89k:03032**

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Galić, Radoslav T-k-seminets. **89d:08006**

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Matei, St. Halbnumeroidale Strukturen und Dusek-Halbklassen. (Romanian summary) [Seminumeroidal structures and Dusek semiclasses] **89b:08006**

Maurer, I. Gy. (*with* Szilágyi, M.) On an equation defined on topological universal algebras. (Italian) (*see* **89c:54001**)

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Răduică, Mihaela Hypostases de l'algèbre Bose-Mesner. [Hypostases of the Bose-Mesner algebra] **89i:08007**

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Saliĭ, V. N. Representation of associations by complete one-to-one quasi-Boolean transformations. (Russian) **89g:08008**

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Albert, M. H. A preservation theorem for ec-structures with applications. **89a:03066**

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Neumann, B. H. *see* **Macdonald, I. D., 89e:20001**

(Otto, Friedrich) *see* **Benninghofen, Benjamin; et al., 89a:68132**

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— *see also* **Gindikin, S. G., 89i:01076**
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Computers in mathematical research ★ Computers in mathematical research. **89c:00032**
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11–04 Explicit machine computation and programs (not the theory of computation or programming)

Brillhart, John (*with* Montgomery, Peter L.; Silverman, Robert D.) Tables of Fibonacci and Lucas factorizations. **89h:11002**
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11–06 Proceedings, conferences, etc.

(Amice, Y.) *see* **Study Group: Ultrametric Analysis, 89g:11003**
(Aubert, Karl Egil) *see* **Number theory, trace formulas and discrete groups, 89m:11003**
(Bergum, Gerald) *see* **Applications of Fibonacci numbers, 89b:11003**
(Bombieri, Enrico) *see* **Number theory, trace formulas and discrete groups, 89m:11003**
(Bredikhin, B. M.) *see* **Additive problems in number theory, 89f:11004**
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Algorithmic methods in algebra and number theory ★ Algorithmic methods in algebra and number theory. **89f:11006**
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  Ultrametric Analysis ★ Groupe d'Étude d'Analyse Ultramétrique. (French) [Study Group on Ultrametric Analysis] **89g:11003**

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(**Schappacher, Norbert**) *see* **Beilinson's conjectures on special values of *L*-functions, 89a:14002**

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New advances in transcendence theory ★ New advances in transcendence theory. **89f:11091**

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11Axx Elementary number theory {For analogues in number fields, see 11R04.}

Li, Shu Guang *see* **Sun, Qi**, (Not in MR)

Sun, Qi (*with* Li, Shu Guang) Primitive roots for the modulus p^l. (Chinese) (Not in MR)

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Arkin, Joseph (*with* Bergum, Gerald) More on the problem of Diophantus. **89f:11010**

Barlotti, Marco A divisibility criterion. (Italian) **89b:11005**

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Cao, Zhen Fu (*with* Liu, Rui; Zhang, Liang Rui) On the equation $\sum_{j=1}^{s}(1/x_j) + (1/(x_1 \cdots x_s)) = 1$ and Znám's problem. **89d:11023**

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11A07 Congruences; primitive roots; residue systems

Achong, A. An extension of Wilson's theorem. **89f:11012**

Bauer, Friedrich Ludwig For all primes greater than 3, $\binom{2p-1}{p-1} \equiv 1 \pmod{p^3}$ holds. **89g:11005**

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11A15 Power residues, reciprocity

Bui Minh Phong On super pseudoprimes which are products of three primes. **89d:11001**

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Hemmeter, Joe On an iteration diagram. **89e:05101**

Waterhouse, William C. A tiny note on Gauss's lemma. **89i:11113**

11A25 Arithmetic functions; related numbers; inversion formulas

Arkhipov, G. I. (*with* Chubarikov, V. N.) On some summation formulas. (Russian) **89a:11008**

Asadulla, Syed Even perfect numbers and their Euler's function. **89a:11009**

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11A41 Primes

Cuesta Dutari, Norberto Arithmetic of the sequences $6n-1$, $6n+1$ and of twin primes. (Spanish. English summary) **89i:11010**
Feit, Walter On large Zsigmondy primes. **89b:11009**
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11A51 Factorization; primality

Battiato, S. (*with* Borho, W.) Are there odd amicable numbers not divisible by three? **89c:11015**
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Bui Minh Phong On Lucas and Lehmer pseudoprime numbers. (Hungarian. English summary) **89f:11020**
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Pomerance, Carl (*with* Smith, Jeffrey W.; Tuler, Randy) A pipeline architecture for factoring large integers with the quadratic sieve algorithm. **89f:11168**
— *see also* **Beauchemin, Pierre; et al., 89g:11126**
Smith, Jeffrey W. *see* **Pomerance, Carl; et al., 89f:11168**
Stephens, A. J. (*with* Williams, Hugh Cowie) Some computational results on a problem concerning powerful numbers. **89d:11091**
Tuler, Randy *see* **Pomerance, Carl; et al., 89f:11168**
Williams, Hugh Cowie *see* **Stephens, A. J., 89d:11091**

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Bowman, Douglas A new generalization of Davison's theorem. **89c:11016**
Bulota, K. Calculation of the nearest integer. **89i:11014**
Cao, Zhen Fu On a problem of Rotkiewicz. (Chinese) **89g:11008**
Friesen, Christian On continued fractions of given period. **89d:11004**
Horadam, A. F. *see* **Shannon, A. G., 89m:11014**
Levesque, Claude Continued fraction expansions and fundamental units. **89f:11021**
Mesirov, Jill P. (*with* Sweet, Melvin M.) Continued fraction expansions of rational expressions with irreducible denominators in characteristic 2. **89a:11016**
Sander, J. W. On a conjecture of Zaremba. **89b:11013**
Shannon, A. G. (*with* Horadam, A. F.) Generalized Fibonacci continued fractions. **89m:11014**
Sweet, Melvin M. *see* **Mesirov, Jill P., 89a:11016**
Wang, Lu Qun Legendre's theorem on asymptotic values. (Chinese. English summary) **89k:11004**
de Weger, B. M. M. Periodicity of p-adic continued fractions. **89j:11006**

Items with secondary classifications in 11A55

Bosma, Wieb Optimal continued fractions. **89b:40001**
Fabrykowski, J. On continued fractions and a certain example of a sequence of continuous functions. **89i:40001**
Godrèche, C. (*with* Luck, J. M.; Vallet, F.) Quasiperiodicity and types of order: a study in one dimension. **89c:82054**
Hensley, Doug A truncated Gauss-Kuz′min law. **89g:11066**
Ito, Shunji (*with* Nakada, Hitoshi) Approximations of real numbers by the sequence $\{n\alpha\}$ and their metrical theory. **89i:11092**
Lakhtakia, Akhlesh *see* **Raup, David J., 89d:82105**
Lin, Ts'ung Yüan Dedekind sums—an algebraic approach. **89k:11030**
Luck, J. M. *see* **Godrèche, C.; et al., 89c:82054**
Nakada, Hitoshi *see* **Ito, Shunji, 89i:11092**
Norton, Alec Continued fractions and differentiability of functions. **89j:26009**
Pethő, Attila On the resolution of Thue inequalities. **89b:11030**
Raup, David J. (*with* Lakhtakia, Akhlesh) Self-referential decomposition of a class of quadratic irrationals. **89d:82105**
Thompson, John G. Archimedes and continued fractions. **89d:01008**
Vallet, F. *see* **Godrèche, C.; et al., 89c:82054**

11A63 Radix representation; digital problems {For metric results, see 11K16.}

Allouche, Jean-Paul (*with* Cohen, Henri; Mendès France, M.; Shallit, Jeffrey) De nouveaux curieux produits infinis. [Some new curious infinite products] **89f:11022**
Cohen, Henri *see* **Allouche, Jean-Paul; et al., 89f:11022**
Francis, R. L. Mathematical haystacks: another look at repunit numbers. **89d:11005**
Gilbert, William J. Complex bases and fractal similarity. (French summary) **89a:11017**
Ludington, Anne Young Generalized transposable integers. **89d:11006**
McDaniel, Wayne L. Powerful k-Smith numbers. **89g:11009**
Mendès France, M. *see* **Allouche, Jean-Paul; et al., 89f:11022**
Reznick, B. Digital representations using the greatest integer function. **89g:11010**

Rüdiger, Karlheinz Die Teilbarkeit durch die Zahlen 7, 13, 17 und 19. [Divisibility by 7, 13, 17 and 19] **89f:11023**
Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 89f:11022**
Stewart, G. W. A curiosity concerning the representation of integers in noninteger bases. **89c:11017**
Zita, K. 1988—abwechslungsreich. [1988—diversified] **89f:11024**

Items with secondary classifications in 11A63

Allouche, Jean-Paul Tours de Hanoi et automates finis. [Towers of Hanoi and finite automata] (*see* **89b:11004**)
Daróczy, Z. (*with* Kátai, I.) On additive arithmetical functions with values in the circle group. **89c:11008**
Eldridge, Klaus E. (*with* Sagong, Seok) The determination of Kaprekar convergence and loop convergence of all three-digit numbers. **89c:11037**
Kannan, Ravindran (*with* Lenstra, A. K.; Lovász, L.) Polynomial factorization and nonrandomness of bits of algebraic and some transcendental numbers. **89j:68061**
Kátai, I. *see* **Daróczy, Z., 89c:11008**
Lenstra, A. K. *see* **Kannan, Ravindran; et al., 89j:68061**
Lovász, L. *see* **Kannan, Ravindran; et al., 89j:68061**
Loxton, J. H. (*with* van der Poorten, A. J.) An awful problem about integers in base four. **89m:11004**
van der Poorten, A. J. *see* **Loxton, J. H., 89m:11004**
Sagong, Seok *see* **Eldridge, Klaus E., 89c:11037**
Simoson, Andrew A difference equation for strings of ones. **89j:39002**

11A67 Other representations

Daróczy, Z. (*with* Járai, Antal; Kátai, I.) Interval filling sequences. **89e:11004**
Iséki, Kiyoshi Palindromic prime numbers. **89k:11005**
Járai, Antal *see* **Daróczy, Z.; et al., 89e:11004**
Kátai, I. *see* **Daróczy, Z.; et al., 89e:11004**

Items with secondary classifications in 11A67

Mossé, Brigitte Mesures spectrales q-adiques de suites arithmétiques. (English summary) [q-adic spectral measures of arithmetic sequences] **89j:11080**
Yokota, Hisashi Denominators of Egyptian fractions. **89f:11051**

11A99 None of the above, but in this section

Dolan, J. M. (*with* Gilman, A. F.; Manickam, S.) A generalization of Everett's result on the Collatz $3x+1$ problem. **89a:11018**
Gilman, A. F. *see* **Dolan, J. M.; et al., 89a:11018**
Gould, H. W. Some formulas for Euler's constant. **89g:11011**
Hilton, Peter On groups of pseudo-integers. **89i:11015**
Lakhtakia, Akhlesh (*with* Messier, Russell; Varadan, Vijay K.; Varadan, Vasundara V.) Fractal sequences derived from the self-similar extensions of the Sierpiński gasket. **89e:11005**
Manickam, S. *see* **Dolan, J. M.; et al., 89a:11018**
Messier, Russell *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Pezzoli, Giannantonio On the Riemann $\zeta(n)$ function and the sum of harmonic series. (Italian) **89i:11016**
Varadan, Vasundara V. *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Varadan, Vijay K. *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Xiao, Rong Some problems about powerful numbers. (Chinese) **89d:11007**

Items with secondary classifications in 11A99

Arenas, Angela The concept of k-level for positive integers. **89c:11149**
Binz, J. Fastpythagoräische Quadrupel. [Almost Pythagorean quadruples] **89d:11018**
Froemke, Jon (*with* Grossman, Jerrold W.) An algebraic approach to some number-theoretic problems arising from paper-folding regular polygons. **89d:11063**
Grossman, Jerrold W. *see* **Froemke, Jon, 89d:11063**
Lettl, Günter Subsemigroups of finitely generated groups with divisor-theory. **89m:20078**
Ribenboim, Paulo Impuissants devant les puissances. (English summary) [Powerless in the face of powers] **89c:11045**
Saito, Sadao On a problem of D. H. Lehmer in number theory. (Japanese. English summary) **89f:11171**
Shallit, Jeffrey Sur certains produits liés aux sommes des chiffres. [On certain products associated to sums of digits] **89j:11076**

11Bxx Sequences and sets

11B05 Density, gaps, topology

Bourgain, J. A nonlinear version of Roth's theorem for sets of positive density in the real line. **89i:11017**
Cameron, Peter J. On the structure of a random sum-free set. **89c:11018**
Chun, C. S. (*with* Freedman, A. R.) Inclusions for classes of lacunary sets. **89i:11018**
Erdős, Paul (*with* Nathanson, Melvyn B.; Sárközy, András) Sumsets containing infinite arithmetic progressions. **89e:11006**
Freedman, A. R. *see* **Chun, C. S., 89i:11018**
Grekos, Georges Convexité, moyennes, densité, lacunes. [Convexity, means, density, lacunas] **89c:11019**
Haight, J. A. An F_σ semigroup of zero measure which contains a translate of every countable set. **89b:11014**
Hindman, Neil Some equivalents of the Erdős sum of reciprocals conjecture. **89j:11007**
Leth, Steven C. Applications of nonstandard models and Lebesgue measure to sequences of natural numbers. **89g:11012**
Nathanson, Melvyn B. *see* **Erdős, Paul; et al., 89e:11006**
Obata, Nobuaki A note on certain permutation groups in the infinite-dimensional rotation group. **89c:11020**
Ruzsa, Imre Z. Iterated difference sets. **89c:11021**
— On an additive property of squares and primes. **89d:11008**
Sárközy, András *see* **Erdős, Paul; et al., 89e:11006**
Shparlinskiĭ, I. E. On B_s-sequences. (Russian) **89j:11008**
Stalley, Robert D. Some inequalities for the sum of two sets of lattice points. **89e:11007**

Items with secondary classifications in 11B05

Berend, Daniel Actions of sets of integers on irrationals. **89a:11077**
Brown, Gavin Inequalities for measures of sum sets. **89g:28001**
Cooper, Curtis N. (*with* Kennedy, Robert E.) A partial asymptotic formula for the Niven numbers. **89c:11036**
Galambos, Janos (*with* Kátai, I.) The gaps in a particular sequence of integers of positive density. **89f:11135**
Kátai, I. *see* **Galambos, Janos, 89f:11135**
Kennedy, Robert E. *see* **Cooper, Curtis N., 89c:11036**
Pintz, János (*with* Steiger, William; Szemerédi, Endre) On sets of natural numbers whose difference set contains no squares. **89g:11019**
Steiger, William *see* **Pintz, János; et al., 89g:11019**
Szemerédi, Endre *see* **Pintz, János; et al., 89g:11019**

11B13 Additive bases [see also 05B10]

Burke, John R. (*with* Webb, W. A.) Sums of perturbed sequences of integers. **89j:11009**
Dowd, Martin Questions related to the Erdős-Turán conjecture. **89h:11006**
Erdős, Paul (*with* Nathanson, Melvyn B.) Minimal asymptotic bases with prescribed densities. **89j:11010**
— (*with* Nathanson, Melvyn B.) Partitions of bases into disjoint unions of bases. **89f:11025**
Jia, Xing De Exact order of subsets of asymptotic bases in additive number theory. **89c:11022**
Kirfel, Christoph Stabilität bei symmetrischen h-Basen. [Stability for symmetric h-bases] **89h:11007**
Lunnon, W. F. Integer sets with distinct subset-sums. **89a:11019**
Mossige, Svein On extremal h-bases A_4. **89e:11008**
Nathanson, Melvyn B. Minimal bases and powers of 2. **89m:11015**
— *see also* **Erdős, Paul, 89f:11025** *and* **89j:11010**
Sárközy, András On the number of prime factors of integers of the form a_i+b_j. **89j:11011**
Webb, W. A. *see* **Burke, John R., 89j:11009**

Items with secondary classifications in 11B13

Erdős, Paul (*with* Sárközy, András; Sós, Vera T.) Problems and results on additive properties of general sequences. III. **89b:11015**
Freiman, G. (*with* Schein, Boris M.) Group and semigroup theoretic considerations inspired by inverse problems of the additive number theory. **89j:20040**
Jia, Xing De On the distribution of a B_2-sequence. (Chinese. English summary) **89j:11023**
Kravchenko, I. V. Determination of the minimal base for Fibonacci p-sequences. (Russian) **89a:11133**
Lander, Eric S. Restrictions upon multipliers of an abelian difference set. **89e:05043**
Rogers, D. G. Multiply perfect systems of difference sets. **89e:05045**
Ruzsa, Imre Z. On an additive property of squares and primes. **89d:11008**
Sárközy, András *see* **Erdős, Paul; et al., 89b:11015**
Schein, Boris M. *see* **Freiman, G., 89j:20040**
Sós, Vera T. *see* **Erdős, Paul; et al., 89b:11015**

11B25 Arithmetic progressions [see also 11N13]

Atanassov, Krassimir T. On the generalized arithmetical and geometrical progressions. **89e:11009**
Beebee, John Examples of infinite, incongruent exact covers. **89g:11013**
Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, Aviezri S.) Disjoint covering systems with precisely one multiple modulus. **89i:11019**
— (*with* Felzenbaum, Alexander; Fraenkel, Aviezri S.) Covers of product sets and the Korec-Znám result. **89g:11014**
Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 89g:11014** *and* **89i:11019**
Fraenkel, Aviezri S. *see* **Berger, Marc A.; et al., 89g:11014** *and* **89i:11019**
Gerver, Joseph (*with* Propp, James G.; Simpson, R. J.) Greedily partitioning the natural numbers into sets free of arithmetic progressions. **89f:11026**
Håland, Inger Johanne Number theory and dynamical systems—a baffling interplay. (Norwegian. English summary) **89j:11012**
Propp, James G. *see* **Gerver, Joseph; et al., 89f:11026**
Simpson, R. J. *see* **Gerver, Joseph; et al., 89f:11026**
Vasilev, Mladen V. Arithmetical progressions containing only squares of natural numbers. **89g:11015**

Items with secondary classifications in 11B25

Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, Aviezri S.) Improvements to the Newman-Znám result for disjoint covering systems. **89f:11013**
Bergum, Gerald *see* **Burke, John R., 89i:11020**
Burke, John R. (*with* Bergum, Gerald) Covering the integers with linear recurrences. **89i:11020**
Erdős, Paul (*with* Nathanson, Melvyn B.; Sárközy, András) Sumsets containing infinite arithmetic progressions. **89e:11006**
Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 89f:11013**
Fraenkel, Aviezri S. *see* **Berger, Marc A.; et al., 89f:11013**
Griera, Mercè On s-sum-sets (s odd) and three-weight projective codes. **89e:94018**
Hindman, Neil Some equivalents of the Erdős sum of reciprocals conjecture. **89j:11007**
Nathanson, Melvyn B. *see* **Erdős, Paul; et al., 89e:11006**
Prömel, H. J. (*with* Rothschild, B. L.) A canonical restricted version of van der Waerden's theorem. **89a:05016**

Rothschild, B. L. *see* **Prömel, H. J., 89a:05016**
Sárközy, András *see* **Erdős, Paul; et al., 89e:11006**
Simpson, R. J. Disjoint covering systems of congruences. **89b:11006**

11B34 Representation functions

Balasubramanian, Ramachandran A note on a result of Erdős, Sárközy and Sós. **89c:11023**
Erdős, Paul (*with* Sárközy, András; Sós, Vera T.) Problems and results on additive properties of general sequences. III. **89b:11015**
Filipponi, Piero *see* **Freitag, Herta T., 89j:11013**
Freitag, Herta T. (*with* Filipponi, Piero) On the representation of integral sequences $\{F_n/d\}$ and $\{L_n/d\}$ as sums of Fibonacci numbers and as sums of Lucas numbers. **89j:11013**
Kalašová, Elena Infinite sets of primes and of powers of an integer a are not context-free. (Russian and Slovak summaries) **89b:11016**
McDaniel, Wayne L. Representations of every integer as the difference of nonsquare powerful numbers. **89b:11017**
Sárközy, András *see* **Erdős, Paul; et al., 89b:11015**
Sós, Vera T. *see* **Erdős, Paul; et al., 89b:11015**

Items with secondary classifications in 11B34

Jia, Xing De On the distribution of a B_2-sequence. (Chinese. English summary) **89j:11023**
Mendelsohn, N. S. Amalgamation of formulae for sequences. **89m:11007**

11B37 Recurrences

Allouche, Jean-Paul Automates finis, arithmétique et systèmes dynamiques. (English summary) [Finite automata, arithmetic and dynamical systems] **89f:11027**
Bergum, Gerald *see* **Bicknell-Johnson, Marjorie, 89g:11016** *and* **Burke, John R., 89i:11020**
Bézivin, Jean-Paul Suites récurrentes linéaires en caractéristique non nulle. (English summary) [Linear recurrent sequences in nonzero characteristic] **89d:11009**
Bicknell-Johnson, Marjorie (*with* Bergum, Gerald) The generalized Fibonacci numbers $\{C_n\}$, $C_n = C_{n-1} + C_{n-2} + k$. **89g:11016**
Burke, John R. (*with* Bergum, Gerald) Covering the integers with linear recurrences. **89i:11020**
Chang, Derek K. Recurrence relations and integer sequences. **89a:11020**
Erdős, Paul (*with* Hildebrand, Adolf; Odlyzko, A. M.; Pudaite, P.; Reznick, B.) The asymptotic behavior of a family of sequences. **89c:11024**
Freitag, Herta T. (*with* Phillips, G. M.) A congruence relation for a linear recursive sequence of arbitrary order. **89i:11021**
Granville, Vincent (*with* Rasson, Jean-Paul) A strange recursive relation. **89j:11014**
Han, Jin Xuan Using Newton's formula to find directly the general term and summation formula of a linear recurrent sequence of numbers. (Chinese) **89k:11006**
Hildebrand, Adolf *see* **Erdős, Paul; et al., 89c:11024**
Horadam, A. F. Generalization of a result of Morgado. **89a:11021**
— Octave recurrence relations. **89a:11022**
— (*with* Shannon, A. G.) Asveld's polynomials $p_j(n)$. **89j:11015**
— *see also* **Mahon, J. M., 89e:11010**
Horak, Pavel A note on the third-order strong divisibility sequences. **89m:11016**
Lagarias, J. C. (*with* Reeds, James A.) Unique extrapolation of polynomial recurrences. **89c:11025**
Lee, Jin Zai (*with* Li, Chia Shêng) Some properties of the sequence $\{W_n(a,b;p,q)\}$. **89a:11023**
— (*with* Li, Chia Shêng) A note on the generalized Fibonacci numbers. **89c:11026**
Li, Chia Shêng *see* **Lee, Jin Zai, 89a:11023** *and* **89c:11026**
Mahon, J. M. (*with* Horadam, A. F.) A constellation of sequences of generalized Pell polynomials. **89e:11010**
Mandekić-Botteri, Vinko The solutions to some Diophantine equations using a recurrence equation. **89b:11018**
Odlyzko, A. M. *see* **Erdős, Paul; et al., 89c:11024**
Philippou, George N. On the kth order linear recurrence and some probability applications. **89f:11028**
Phillips, G. M. *see* **Freitag, Herta T., 89i:11021**
Pudaite, P. *see* **Erdős, Paul; et al., 89c:11024**
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Reeds, James A. *see* **Lagarias, J. C., 89c:11025**
Reznick, B. *see* **Erdős, Paul; et al., 89c:11024**
Robson, Robert O. An Artin conjecture for two-term recurrence sequences. **89c:11027**
Schinzel, A. Second order strong divisibility sequences in an algebraic number field. **89c:11028**
Shannon, A. G. Fibonacci numbers and Diophantine quadruples: generalizations of results of Morgado and Horadam. **89f:11029**
— *see also* **Horadam, A. F., 89j:11015**
Shorey, T. N. (*with* Stewart, C. L.) Pure powers in recurrence sequences and some related Diophantine equations. **89a:11024**
Singh, Surjeet A note on linear recurring sequences. **89i:11022**
Somer, Lawrence Primes having an incomplete system of residues for a class of second-order recurrences. **89i:11023**
Stewart, C. L. *see* **Shorey, T. N., 89a:11024**

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Ando, Shiro *see* **Nagasaka, Kenji, 89i:11029**
Bui Minh Phong On Lucas and Lehmer pseudoprime numbers. (Hungarian. English summary) **89f:11020**
Er, M. C. Derivation of identity equations of the order-k Fibonacci numbers. **89i:11024**
— An $O(k^2 \log(n/k))$ algorithm for computing generalized order-k Fibonacci numbers with linear space. **89k:11129**
Filipponi, Piero *see* **Freitag, Herta T., 89j:11013**
Freitag, Herta T. (*with* Filipponi, Piero) On the representation of integral sequences $\{F_n/d\}$ and $\{L_n/d\}$ as sums of Fibonacci numbers and as sums of Lucas numbers. **89j:11013**
Horadam, A. F. *see* **Pethe, S., 89m:11018**
Howard, F. T. Recurrences related to the Bessel function. **89g:33009**
Knuth, Donald E. (*with* Pittel, B.) A recurrence related to trees. **89i:05024**
Lin, Pin Yen De Moivre-type identities for the Tribonacci numbers. **89i:11025**
Mao, Jing Zhong Another class of generalized Eulerian numbers. (Chinese) **89j:11020**
Nagasaka, Kenji (*with* Ando, Shiro) Symmetric recursive sequences mod m. **89i:11029**
Pethe, S. Some identities for Tribonacci sequences. **89e:05023**
— (*with* Horadam, A. F.) Generalized Gaussian Lucas primordial functions. **89m:11018**
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Robbins, Neville Fibonacci numbers of the forms $pX^2 \pm 1$, $pX^3 \pm 1$, where p is prime. **89f:11032**
Shi, Xiao Sheng The computation and factorization of the series $S_k(n) = \sum_{p=1}^{n} p^{k-1}$. (Chinese) **89d:11013**
Shparlinskiĭ, I. E. The number of different prime divisors of recurrent sequences. (Russian) **89k:11092**
Tichy, Robert F. Rekursive Folgen in Dedekind Ringen—einige Resultate und Probleme. [Recursive sequences in Dedekind rings—some results and problems] **89c:13024**

11B39 Fibonacci and Lucas numbers and polynomials

Asveld, Peter R. J. Another family of Fibonacci-like sequences. **89h:11008**
Bergum, Gerald *see* **Long, Calvin, 89i:11026**
Chang, Hung Chū (*with* Li, Chia Shêng) The general Tribonacci sequence. **89a:11025**
— (*with* Li, Chia Shêng) On a finite sum of products of the two general Fibonacci sequences. **89k:11007**
Dujella, Andrej The divisibility of Fibonacci numbers. (Serbo-Croatian) (Not in MR)
Ehrlich, Amos On the periods of the Fibonacci sequence modulo m. **89m:11017**
Er, M. C. Derivation of identity equations of the order-k Fibonacci numbers. **89i:11024**
Erdős, Paul (*with* Kiss, Péter; Sárközy, András) A lower bound for the counting function of Lucas pseudoprimes. **89e:11011**
Goldman, Mitchell Lucas numbers of the form pX^2, where $p = 3, 7, 47$, or 2207. **89e:11012**
Goldoni, Giorgio The combinatorial significance of the Fibonacci numbers. (Italian) **89k:11008**
Grimaldi, Ralph P. A generalization of the Fibonacci sequence. **89f:11030**
Horadam, A. F. (*with* Shannon, A. G.) Generalization of identities of Catalan and others. **89c:11029**
— (*with* Shannon, A. G.) Fibonacci and Lucas curves. **89c:11031a**
— Jacobsthal and Pell curves. **89c:11031b**
— Elliptic functions and Lambert series in the summation of reciprocals in certain recurrence-generated sequences. **89e:11013**
— *see also* **Pethe, S., 89m:11018**
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Kiss, Péter Primitive divisors of Lucas numbers. **89j:11016**
— *see also* **Erdős, Paul; et al., 89e:11011**
Knuth, Donald E. Fibonacci multiplication. **89f:11031**
Li, Chia Shêng *see* **Chang, Hung Chū, 89a:11025** *and* **89k:11007**
Lin, Pin Yen De Moivre-type identities for the Tribonacci numbers. **89i:11025**
Long, Calvin (*with* Bergum, Gerald) On a problem of Diophantus. **89i:11026**
Mollin, R. A. Generalized Fibonacci primitive roots, and class numbers of real quadratic fields. **89d:11010**
Morgado, José Note on some results of A. F. Horadam and A. G. Shannon concerning a Catalan's identity on Fibonacci numbers. **89c:11030**
Pethe, S. (*with* Horadam, A. F.) Generalized Gaussian Lucas primordial functions. **89m:11018**
Pihko, Jukka On Fibonacci and Lucas representations and a theorem of Lekkerkerker. **89j:11017**
Robbins, Neville Fibonacci numbers of the forms $pX^2 \pm 1$, $pX^3 \pm 1$, where p is prime. **89f:11032**
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Sárközy, András *see* **Erdős, Paul; et al., 89e:11011**
Shannon, A. G. *see* **Horadam, A. F., 89c:11029** *and* **89c:11031a**
Shao, Pin Zong The Fibonacci sequence and its application. (Chinese) **89i:11027**
Tirman, Alvin (*with* Jablonski, T. Henry, Jr.) Identities derived on a Fibonacci multiplication table. (Not in MR)
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11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$

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11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

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11D25 Cubic and quartic equations

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Tzanakis, N. *see* **Stroeker, R. J., 89f:11044**
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Vasilev, Mladen V. How to solve the Diophantine equation (1) $A^3+(A+1)^3+(A+2)^3=B^3$. **89e:11018**
Walsh, P. G. *see* **Mollin, R. A.; et al., 89d:11019**
Zheng, De Xun Solvability of the Diophantine equation $x^4+kx^2y^2+y^4=z^2$. **89i:11038**

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Baker, Alan (*with* Stewart, C. L.) On effective approximations to cubic irrationals. **89m:11065**
Boyd, David W. The Diophantine equation $x^2+y^m=z^{2n}$. **89f:11046**
Cochrane, Todd Small solutions of cubic congruences. **89k:11018**
Colliot-Thélène, J.-L. Surfaces cubiques diagonales. [Diagonal cubic surfaces] **89i:11068**
— (*with* Kanevsky, Dimitri; Sansuc, Jean-Jacques) Arithmétique des surfaces cubiques diagonales. [Arithmetic of diagonal cubic surfaces] **89g:11051**
Dem'yanenko, V. A. Sharp estimates for the torsion of curves of genus one. (Russian) **89a:14054**
Hindry, Marc (*with* Silverman, Joseph H.) The canonical height and integral points on elliptic curves. **89k:11044**
Horie, Kuniaki *see* **Nakagawa, Jin, 89k:11113**
Kanevsky, Dimitri Application of the conjecture on the Manin obstruction to various Diophantine problems. **89b:11032**
— *see also* **Colliot-Thélène, J.-L.; et al., 89g:11051**
Keedwell, A. D. Simple constructions for elliptic cubic curves with specified small numbers of points. **89j:14013**
Kenku, M. A. (*with* Momose, F.) Torsion points on elliptic curves defined over quadratic fields. **89c:11091**
Momose, F. *see* **Kenku, M. A., 89c:11091**
Nakagawa, Jin (*with* Horie, Kuniaki) Elliptic curves with no rational points. **89k:11113**
Peng, T. A. The right-angled triangle. **89h:11010**
Sansuc, Jean-Jacques *see* **Colliot-Thélène, J.-L.; et al., 89g:11051**
Silverman, Joseph H. Computing heights on elliptic curves. **89d:11049**
— *see also* **Hindry, Marc, 89k:11044**
Stevens, Glenn On the periods of modular elliptic curves. **89i:11064**
Stewart, C. L. *see* **Baker, Alan, 89m:11065**
Zagier, Don Addendum to: "Large integral points on elliptic curves" [Math. Comp. **48** (1987), no. 177, 425–436; MR 87k:11062]. **89c:11092**

11D41 Higher degree equations; Fermat's equation

Adachi, Norio History of congruent numbers. (Japanese) **89g:11022**
— The Diophantine equation $x^2\pm ly^2=z^l$ connected with Fermat's last theorem. **89g:11023**
Belotserkovskii, Yu. F. Effective analysis of a class of Diophantine equations. (Russian. English summary) **89i:11039**
Białek, Krystyna On some inequalities connected with Fermat's equation. **89i:11040**
Boyd, David W. The Diophantine equation $x^2+y^m=z^{2n}$. **89f:11046**
Bremner, A. On Euler's quartic surface. **89j:11026**
Cao, Zhen Fu An Erdős conjecture, Pell sequences and Diophantine equations. **89b:11022**
— On a problem of Hall. (Chinese. English summary) **89b:11023**
— *see also* **Wang, Du Zheng, 89f:11048**
Chen, Zhong Mu On orders of finite simple groups. (Chinese) **89b:11024**
Choudhry, Ajai On Fermat's last theorem. **89m:11025**
Czech, Jerzy (*with* Wieczorkiewicz, Jan K.) An application of matrices to parametrization of the equation $3x^2-2y^2=z^k$. **89d:11020**
— On the equation $x^2-Dy^2=z^k$ with $D=2,3,5,7,11,13$. **89i:11041a**
Degoli, Lando On Fermat's principle of "infinite descent". (Italian) **89h:11013**
Erdős, Paul (*with* Stewart, C. L.; Tijdeman, R.) Some Diophantine equations with many solutions. **89j:11027**
Evertse, J.-H. (*with* Győry, K.; Shorey, T. N.; Tijdeman, R.) Equal values of binary forms at integral points. **89k:11014**
— (*with* Győry, K.) Decomposable form equations. **89i:11042**
— (*with* Győry, K.; Stewart, C. L.; Tijdeman, R.) S-unit equations and their applications. **89j:11028**
Faltings, Gerd Some historical notes. (*see* **89b:14029**)
Fandiño Arbeláez, Ramón E. Geometric and matrix-theoretic interpretations of Fermat's last theorem. (Spanish) **89b:11025**
Granville, Andrew (*with* Powell, Barry) On Sophie Germain type criteria for Fermat's last theorem. **89g:11024**
— (*with* Monagan, M. B.) The first case of Fermat's last theorem is true for all prime exponents up to 714, 591, 416, 091, 389. **89g:11025**
Gusić, Ivica Diophantine geometry. (Serbo-Croatian) (Not in MR)
Győry, K. *see* **Evertse, J.-H., 89i:11042; 89j:11028** *and* **89k:11014**
Jia, Guang Ju On the Diophantine equation $x^2-Dy^{2n}=-1$. (Chinese. English summary) **89m:11026**
Karamatsu, Yoshikazu A note on the first case of Fermat's last theorem. **89i:11043**
Monagan, M. B. *see* **Granville, Andrew, 89g:11025**
Mueller, Julia H. Counting solutions of $|ax^r-by^r|\leq h$. **89b:11026**
Plaksin, V. A. The sum of a quadratic form and a power of an integer. (Russian) **89b:11027**
Powell, Barry *see* **Granville, Andrew, 89g:11024**
Quine, Willard Van Orman Fermat's last theorem in combinatorial form. **89g:11026**
Ribenboim, Paulo Recent results about Fermat's last theorem. **89c:11046**
— Impuissants devant les puissances. (English summary) [Powerless in the face of powers] **89c:11045**
Robert, Alain Retour au théorème de Siegel-Mahler-Roth. [Return to the Siegel-Mahler-Roth theorem] **89c:11047**
Saw, P. K. Progressive mapping. **89f:11047**
Shorey, T. N. *see* **Evertse, J.-H.; et al., 89k:11014**
Silverman, Joseph H. Wieferich's criterion and the *abc*-conjecture. **89m:11027**
Sinha, T. N. The Diophantine equation $x^4+kx^2y^2+y^4=z^2$. **89d:11021**
Stewart, C. L. *see* **Erdős, Paul; et al., 89j:11027** *and* **Evertse, J.-H.; et al., 89j:11028**
Sun, Qi On the Ko-Terjanian-Rotkiewicz method in Diophantine equations. (Chinese. English summary) **89m:11028**
Terjanian, Guy Sur une question de V. A. Lebesgue. (English summary) [On a question posed by V. A. Lebesgue] **89c:11048**
Thaine, Francisco On Fermat's last theorem and the arithmetic of $\mathbf{Z}[\zeta_p+\zeta_p^{-1}]$. **89m:11029**
Tijdeman, R. A note on the Fermat equation. **89b:11028**
— *see also* **Erdős, Paul; et al., 89j:11027; Evertse, J.-H.; et al., 89j:11028** *and* **89k:11014**
Valette, Alain Le point sur la conjecture de Fermat (novembre 1986). [An update on Fermat's conjecture (November, 1986)] **89c:11049**
Wang, Du Zheng (*with* Cao, Zhen Fu) On the Diophantine equations $x^{2n}-Dy^2=1$ and $x^2-Dy^{2n}=1$. (Chinese) **89f:11048**
Wieczorkiewicz, Jan K. *see* **Czech, Jerzy, 89d:11020**
Wojtacha, Jerzy On the equation $x^2+Dxy+y^2=z^k$. **89i:11041b**

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Andersen, Henning Haahr Why Gerd Faltings got the Fields medal. (Danish. English summary) **89a:01050**
(Cornell, Gary) *see* **Arithmetic geometry, 89b:14029**
(Faltings, Gerd) *see* **Andersen, Henning Haahr, 89a:01050**
Kodama, Tetsuo (*with* Washio, Tadashi) Hasse-Witt matrices of Fermat curves. **89b:14042**
Ribenboim, Paulo Remarks on exponential congruences and powerful numbers. **89k:11086**
Robinson, Abraham On a relatively effective procedure getting all quasi-integer solutions of Diophantine equations with positive genus. **89j:03060**
Shorey, T. N. (*with* Stewart, C. L.) Pure powers in recurrence sequences and some related Diophantine equations. **89a:11024**
Silverman, Joseph H. Heights and elliptic curves. (*see* **89b:14029**)
— Integral points on abelian surfaces are widely spaced. **89c:14070**
— *see also* **Arithmetic geometry, 89b:14029**
Soublin, Jean-Pierre ★ Nombre de points d'une courbe sur un corps fini. (French) [The number of points on a curve over a finite field] **89c:11101**
Stewart, C. L. *see* **Shorey, T. N., 89a:11024**
Șzpiro, Lucien Présentation de la théorie d'Arakélov. [Presentation of Arakelov theory] **89c:14005**
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Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
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  Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Storrs, Conn. ★ Arithmetic geometry. **89b:14029**

11D57 Multiplicative and norm form equations

Gaál, István On the resolution of inhomogeneous norm form equations in two dominating variables. **89m:11030**
Harborth, Heiko Fermat-like binomial equations. **89f:11049**

iss, Péter On the number of solutions of the Diophantine equation $\binom{x}{p} = \binom{y}{2}$. **89f:11050**
otov, S. V. S-integer solutions of a class of normed Diophantine equations. (Russian) **89c:11050**
— S-integral solutions of a class of Diophantine equations of norm form with a polynomial right-hand side. (Russian) **89k:11015**
tepanova, M. B. Diophantine equations of a special form of indeterminate type. (Russian) (*see* **89f:11004**)
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eng, Wen Zhang Investigation of the integer solutions of the Diophantine equation $1/w + 1/x + 1/y + 1/z + 1/wxyz = 0$. (Chinese) **89c:11051**

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Cao, Zhen Fu An Erdős conjecture, Pell sequences and Diophantine equations. **89b:11022**
Evertse, J.-H. (*with* Győry, K.) Decomposable form equations. **89i:11042**
Győry, K. *see* **Evertse, J.-H., 89i:11042**

11D61 Exponential equations

Bombieri, Enrico On the Thue-Mahler equation. **89g:11027**
Brindza, B. On S-integral solutions of the Catalan equation. **89d:11022**
Cao, Yu Shu On the equation $a^x - b^y = 22^z$. (Chinese. English summary) **89c:11052**
Cao, Zhen Fu Exponential Diophantine equations of the form $a^x + b^y = c^z$. (Chinese. English summary) **89k:11016**
— (*with* Wang, Du Zheng) On a problem of Hugh Edgar. (Chinese) (Not in MR)
— *see also* **Sun, Qi, 89j:11029**
Evertse, J.-H. (*with* Győry, K.; Stewart, C. L.; Tijdeman, R.) On S-unit equations in two unknowns. **89g:11028**
Győry, K. *see* **Evertse, J.-H.; et al., 89g:11028**
Seifert, Benedict On the arithmetic of cycles for the Collatz-Hasse ("Syracuse") conjectures. **89a:11031**
Shorey, T. N. Some exponential Diophantine equations. **89m:11031**
Stewart, C. L. *see* **Evertse, J.-H.; et al., 89g:11028**
Sun, Qi (*with* Cao, Zhen Fu) On the Diophantine equations $x^2 + D^m = p^n$ and $x^2 + 2^m = y^n$. (Chinese. English summary) **89j:11029**
Tijdeman, R. (*with* Wang, Lian Xiang) Simultaneous weighted sums of elements of finitely generated multiplicative groups. **89i:11044**
— (*with* Wang, Lian Xiang) Sums of products of powers of given prime numbers. **89a:11032**
— (*with* Wang, Lian Xiang) Correction to: "Sums of products of powers of given prime numbers" [Pacific J. Math. **132** (1988), no. 1, 177–193; MR 89a:11032]. **89i:11045**
— *see also* **Evertse, J.-H.; et al., 89g:11028**
Wang, Du Zheng *see* **Cao, Zhen Fu**, (Not in MR)
Wang, Lian Xiang *see* **Tijdeman, R., 89a:11032; 89i:11044** *and* **89i:11045**

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Bézivin, Jean-Paul Suites récurrentes linéaires en caractéristique non nulle. (English summary) [Linear recurrent sequences in nonzero characteristic] **89d:11009**
Lam, T. Y. On the number of solutions of $x^{p^k} = a$ in a p-group. **89h:20031**

11D68 Rational numbers as sums of fractions

Cao, Zhen Fu (*with* Liu, Rui; Zhang, Liang Rui) On the equation $\sum_{j=1}^{s}(1/x_j) + (1/(x_1 \cdots x_s)) = 1$ and Znám's problem. **89d:11023**
— *see also* **Sun, Qi, 89b:11029**
Liu, Rui *see* **Cao, Zhen Fu; et al., 89d:11023**
Sun, Qi (*with* Cao, Zhen Fu) On the equation $\sum_{j=1}^{s} 1/x_j + 1/x_1 \cdots x_s = 1$. (Chinese. English summary) **89b:11029**
Treiber, Heiner Brüche als Summe von Stammbrüchen. [Fractions as sums of unit fractions] **89m:11032**
Yokota, Hisashi Length and denominators of Egyptian fractions. II. **89e:11019**
— Denominators of Egyptian fractions. **89f:11051**
— On a problem of Bleicher and Erdős. **89k:11017**
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Items with secondary classifications in 11D68

Cao, Zhen Fu *see* **Sun, Qi, 89j:11005**
Sun, Qi (*with* Cao, Zhen Fu) On the equation $\sum_{j=1}^{s} 1/x_j + 1/x_1 \cdots x_s = n$ and the number of solutions of Znám's problem. (Chinese. English summary) **89j:11005**
Zeng, Wen Zhang Investigation of the integer solutions of the Diophantine equation $1/w + 1/x + 1/y + 1/z + 1/wxyz = 0$. (Chinese) **89c:11051**

11D72 Equations in many variables [see also 11P55]

Hooley, Christopher On nonary cubic forms. **89h:11014**

Items with secondary classifications in 11D72

Baker, R. C. (*with* Brüdern, Jörg) On pairs of additive cubic equations. **89i:11036**
Bremner, A. On Euler's quartic surface. **89j:11026**
— On diagonal cubic surfaces. **89k:11013**
Brüdern, Jörg *see* **Baker, R. C., 89i:11036**
van den Dries, Lou Elimination theory for the ring of algebraic integers. **89k:03038**
Igusa, Jun-ichi Some aspects of the arithmetic theory of polynomials. **89e:11074**
Wang, Yuan[1] Bounds for solutions of additive equations in an algebraic number field. II. **89a:11104**

11D75 Diophantine inequalities [see also 11J25]

Brüdern, Jörg Additive Diophantine inequalities with mixed powers. I, II. **89d:11024**
— Cubic Diophantine inequalities. **89m:11033**
Mueller, Julia H. (*with* Schmidt, Wolfgang M.) Thue's equation and a conjecture of Siegel. **89g:11029**
Nakai, Yoshinobu On Diophantine inequalities of real indefinite quadratic forms of additive type in four variables. **89m:11034**
Pethő, Attila On the resolution of Thue inequalities. **89b:11030**
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Items with secondary classifications in 11D75

Bulota, K. Solutions of a Diophantine inequality. (Russian. English and Lithuanian summaries) **89i:11076**
Chirkov, A. Yu. (*with* Shevchenko, V. N.) Determination of the successive minima of an integer lattice and of the vector of the lattice closest to the given one. (Russian. English summary) **89a:90088**
Nguyễn Xuân Viên Asymptotic behavior of the number of solutions of some systems of Diophantine inequalities. (Russian. English summary) **89f:11093**
Shan, Zun A Diophantine inequality. (Chinese) **89g:11057**
Shevchenko, V. N. *see* **Chirkov, A. Yu., 89a:90088**
Topchishvili, A. L. Application of order-convex functions for the analysis of the solvability of systems of separable Diophantine inequalities. (Russian. English and Georgian summaries) **89c:90080**
Xu, Guang Shan A note on the fractional parts of powers of rational numbers. (Chinese. English summary) **89j:11067**

11D79 Congruences in many variables

Cochrane, Todd Small solutions of cubic congruences. **89k:11018**
Low, Lewis (*with* Pitman, Jane; Wolff, Alison) Simultaneous diagonal congruences. **89g:11030**
Nakahara, Toru A periodic solution of some congruences and the rank of Hasse-Witt matrix. **89i:11046**
Pitman, Jane *see* **Low, Lewis; et al., 89g:11030**
Wolff, Alison *see* **Low, Lewis; et al., 89g:11030**

11D85 Representation problems [see also 11P55]

Peretti, A. The method of the Laplace transform compared with the circle method of Hardy-Littlewood-Ramanujan. **89f:11052**

Items with secondary classifications in 11D85

Evertse, J.-H. (*with* Győry, K.) On the numbers of solutions of weighted unit equations. **89i:11082**
Győry, K. *see* **Evertse, J.-H., 89i:11082**
Hardy, Kenneth (*with* Kaplan, Pierre; Williams, Kenneth S.) The representation of a pair of integers by a pair of positive-definite binary quadratic forms. **89i:11049**
Kaplan, Pierre *see* **Hardy, Kenneth; et al., 89i:11049**
Kubenskiĭ, M. N. Formulas for the number of representations of numbers by norm forms of quaternion orders. (Russian) **89k:11114**
Li, De Lang Representation of numbers by binary quadratic forms. **89d:11025**
Pintz, János (*with* Steiger, William; Szemerédi, Endre) On sets of natural numbers whose difference set contains no squares. **89g:11019**
Rousseau, George On a construction for the representation of a positive integer as the sum of four squares. **89c:11055**
Steiger, William *see* **Pintz, János; et al., 89g:11019**
Szemerédi, Endre *see* **Pintz, János; et al., 89g:11019**
Tignol, Jean-Pierre (*with* Vast, Nicole) Représentation de -1 comme somme de carrés dans certaines algèbres de quaternions. (English summary) [Representation of -1 as a sum of squares in certain quaternion algebras] **89f:11058**
Tijdeman, R. (*with* Wang, Lian Xiang) Sums of products of powers of given prime numbers. **89a:11032**
— (*with* Wang, Lian Xiang) Correction to: "Sums of products of powers of given prime numbers" [Pacific J. Math. **132** (1988), no. 1, 177–193; MR 89a:11032]. **89i:11045**
Vast, Nicole *see* **Tignol, Jean-Pierre, 89f:11058**
Wang, Lian Xiang *see* **Tijdeman, R., 89a:11032** *and* **89i:11045**
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11D88 p-adic and power series fields

Items with secondary classifications in 11D88

Salberger, Per On the arithmetic of certain intersections of two quadrics. **89m:11061**

11D99 None of the above, but in this section

Items with secondary classifications in 11D99

Silverman, Joseph H. Arithmetic distance functions and height functions in Diophantine geometry. **89a:11066**

11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

11E04 Quadratic forms over general fields

Krishnamani, Vatsala (*with* Yucas, Joseph) Quadratic forms and linkage of quaternion algebras. **89f:11053**
Mason, Geoffrey Groups, discriminants and the spinor norm. **89j:11030**
Yucas, Joseph Generalized Hilbert fields, quaternion algebra structure and block design counting. **89e:11020**
— *see also* **Krishnamani, Vatsala, 89f:11053**

Items with secondary classifications in 11E04

Allison, B. N. Tensor products of composition algebras, Albert forms and some exceptional simple Lie algebras. **89e:17004**

Arason, Jón Kr. (*with* Elman, Richard; Jacob, Bill) Rigid elements, valuations, and realization of Witt rings. **89a:11041**

Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**

Elman, Richard *see* **Arason, Jón Kr.; et al., 89a:11041**

Gross, Herbert Lattices and infinite-dimensional forms. "The lattice method". **89e:06009**

Jacob, Bill *see* **Arason, Jón Kr.; et al., 89a:11041**

Kozioł, Krzysztof Quadratic form schemes determined by Hermitian forms. **89d:11027**

Mammone, Pasquale (*with* Shapiro, Daniel B.) The Albert quadratic form for an algebra of degree four. **89g:16029**

Shapiro, Daniel B. *see* **Mammone, Pasquale, 89g:16029**

Swan, Richard G. Zero cycles on quadric hypersurfaces. **89m:14005**

Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**

11E08 Quadratic forms over local rings and fields

Items with secondary classifications in 11E08

Hironaka, Yumiko On a denominator of Kitaoka's power series attached to local densities. **89m:11038**

Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques: une conjecture de Pierre Conner. [Gauss sums associated with quadratic characters: a conjecture of Pierre Conner] **89c:11128**

Lomadze, V. G. Quadratic forms over multidimensional local fields. (Russian) **89b:11034**

Pfalzgraf, J. On the level of a semilocal ring with involution. **89f:11060**

11E10 Forms over real fields

Flahive, Mary G. Indefinite quadratic forms in many variables. **89m:11035**

Items with secondary classifications in 11E10

Andradas, C. (*with* Bröcker, L.; Ruiz, Jesús M.) Minimal generation of basic open semianalytic sets. **89f:32016**

Bröcker, L. *see* **Andradas, C.; et al., 89f:32016**

Craven, Thomas C. Fields maximal with respect to a set of orderings. **89e:12004**

James, Donald G. Representations of anisotropic unitary groups. **89f:11062**

Ruiz, Jesús M. *see* **Andradas, C.; et al., 89f:32016**

Tignol, Jean-Pierre (*with* Vast, Nicole) Représentation de -1 comme somme de carrés dans certaines algèbres de quaternions. (English summary) [Representation of -1 as a sum of squares in certain quaternion algebras] **89f:11058**

Vast, Nicole *see* **Tignol, Jean-Pierre, 89f:11058**

11E12 Quadratic forms over global rings and fields

Boukhobza, Mustapha Simplification des modules quadratiques sur l'anneau des entiers relatifs. (English summary) [Simplification of quadratic modules over the ring of relative integers] **89i:11047**

Gerstein, Larry J. A note on splitting quadratic forms. **89f:11054**

Golovizin, V. V. An asymptotic law for the number of representations of integers by positive quadratic forms. (Russian) **89k:11019**

James, Donald G. Diagonalizable indefinite integral quadratic forms. **89j:11031**

— Even quadratic forms with cube-free discriminant. **89j:11032**

Koo, Ja Kyung Arithmetic of integral even unimodular quadratic forms of 24 variables. **89f:11055**

Krüskemper, Martin (*with* Scharlau, Winfried) On trace forms of Hilbertian fields. **89k:11020**

Morales, Jorge F. Maximal Hermitian forms over $\mathbf{Z}G$. **89f:11056**

Sander, J. W. A reciprocity formula for quadratic forms. **89a:11033**

Scharlau, Winfried *see* **Krüskemper, Martin, 89k:11020**

Shao, You Yu *see* **Zhu, Fu Zu, 89k:11022**

Vaaler, Jeffrey D. Small zeros of quadratic forms over number fields. II. **89k:11021**

Zhu, Fu Zu (*with* Shao, You Yu) On the construction of indecomposable positive definite quadratic forms over Z. **89k:11022**

— On nondecomposability and indecomposability of quadratic forms. **89i:11048**

Items with secondary classifications in 11E12

Arenas, Angela (*with* Bayer, Pilar) Arithmetic behaviour of the sums of three squares. **89c:11053**

— On integral representations by quadratic forms. **89g:15032**

Bayer, Pilar *see* **Arenas, Angela, 89c:11053**

Rapinchuk, A. S. The Hasse principle for symmetric spaces. (Russian. English summary) **89a:11039**

Ryckaert, Alain Factorialité de l'algèbre affine de certaines formes quadratiques. [Unique factorization property for the affine algebra of certain quadratic forms] **89f:13029**

Schlickewei, Hans Peter (*with* Schmidt, Wolfgang M.) Quadratic forms which have only large zeros. **89k:11054**

Schmidt, Wolfgang M. *see* **Schlickewei, Hans Peter, 89k:11054**

11E16 General binary quadratic forms

Hardy, Kenneth (*with* Kaplan, Pierre; Williams, Kenneth S.) The representation of a pair of integers by a pair of positive-definite binary quadratic forms. **89i:11049**

Kaplan, Pierre *see* **Hardy, Kenneth; et al., 89i:11049**

Li, De Lang Representation of numbers by binary quadratic forms. **89d:11025**

Williams, Kenneth S. *see* **Hardy, Kenneth; et al., 89i:11049**

Items with secondary classifications in 11E16

Boukhobza, Mustapha Simplification des modules quadratiques sur l'anneau des entiers relatifs. (English summary) [Simplification of quadratic modules over the ring of relative integers] **89i:11047**

Evertse, J.-H. (*with* Győry, K.; Shorey, T. N.; Tijdeman, R.) Equal values of binary forms at integral points. **89k:11014**

Győry, K. *see* **Evertse, J.-H.; et al., 89k:11014**

Kneser, Martin Komposition quadratischer Formen. [Composition of quadratic forms] **89c:11060**

Shorey, T. N. *see* **Evertse, J.-H.; et al., 89k:11014**

Taussky, Olga Integral matrices in algebraic number theory. **89c:15033**

Tijdeman, R. *see* **Evertse, J.-H.; et al., 89k:11014**

11E20 General ternary and quaternary quadratic forms

Abdullaev, I. (*with* Kogan, L. A.) Finiteness of quadratic forms of Weil type. (Russian) **89g:11031**

Arenas, Angela (*with* Bayer, Pilar) Arithmetic behaviour of the sums of three squares. **89c:11053**

Bayer, Pilar *see* **Arenas, Angela, 89c:11053**

Earnest, A. G. Minimal discriminants of indefinite ternary quadratic forms having specified class number. **89k:11023**

Kogan, L. A. *see* **Abdullaev, I., 89g:11031**

Teterin, Yu. G. Remarks on the representation of numbers that are divisible into large squares by a positive ternary quadratic form. (Russian) **89j:11033**

Items with secondary classifications in 11E20

Kneser, Martin Komposition quadratischer Formen. [Composition of quadratic forms] **89c:11060**

11E25 Sums of squares; other particular quadratic forms

Arenas, Angela On positive integers representable as a sum of three squares. **89a:11034**

Cochrane, Todd (*with* Dressler, Robert E.) Consecutive triples of sums of two squares. **89f:11057**

Dressler, Robert E. *see* **Cochrane, Todd, 89f:11057**

Lomadze, G. A. Cusp forms and quadratic forms of prime level and of Nebentypus. I. (Russian) **89d:11026**

Schreiber, Morris Sums of squares of trigonometric polynomials. **89h:11015**

Shiu, P. Counting sums of three squares. **89c:11054**

Tignol, Jean-Pierre (*with* Vast, Nicole) Représentation de -1 comme somme de carrés dans certaines algèbres de quaternions. (English summary) [Representation of -1 as a sum of squares in certain quaternion algebras] **89f:11058**

Vast, Nicole *see* **Tignol, Jean-Pierre, 89f:11058**

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Aggarwal, Satish K. (*with* Gupta, D. P.) Positive values of inhomogeneous quadratic forms of signature -2. **89f:11089**

Arenas, Angela (*with* Bayer, Pilar) Arithmetic behaviour of the sums of three squares. **89c:11053**

Bayer, Pilar *see* **Arenas, Angela, 89c:11053**

Bremner, A. The rational cuboid and a quartic surface. **89c:11041**

Gupta, D. P. *see* **Aggarwal, Satish K., 89f:11089**

Lewis, D. W. Sums of Hermitian squares. **89f:11059**

Plaksin, V. A. The distribution of numbers that can be represented as the sum of two squares. **89h:11062**

Salberger, Per On the arithmetic of certain intersections of two quadrics. **89m:11061**

Zeng, Guang Xing A characterization of preordered fields with the weak Hilbert property. **89i:12003**

11E32 Reduction theory of quadratic forms [See mainly 11H55]

Items with secondary classifications in 11E32

Ash, Avner Nonminimal modular symbols for $\mathrm{GL}(n)$. **89c:11089**

Duke, W. Hyperbolic distribution problems and half-integral weight Maass forms. **89d:11033**

Elstrodt, Jürgen *see* **Grunewald, Fritz J.; et al., 89c:22018**

Grunewald, Fritz J. (*with* Elstrodt, Jürgen; Mennicke, Jens L.) Some remarks on discrete subgroups of $\mathrm{SL}_2(\mathbf{C})$. (Russian) **89c:22018**

Koecher, M. Über ganzzahlige Darstellungen quadratischer Formen. [On integral representations of quadratic forms] **89a:11047**

Mennicke, Jens L. *see* **Grunewald, Fritz J.; et al., 89c:22018**

11E36 Distribution of lattice points on quadrics [See mainly 11P21]

Uteshev, A. Yu. A criterion for the positive definiteness of homogeneous forms. **89i:11050**

Items with secondary classifications in 11E36

Arenas, Angela (*with* Bayer, Pilar) Arithmetic behaviour of the sums of three squares. **89c:11053**

Bayer, Pilar *see* **Arenas, Angela, 89c:11053**

Koo, Ja Kyung Arithmetic of integral even unimodular quadratic forms of 24 variables. **89f:11055**

Voskresenskiĭ, V. E. Exact parametrization of normed surfaces. (Russian) (*see* **89f:11004**)

11E39 Bilinear and Hermitian forms

Adem, José Classification of low-dimensional orthogonal pairings. **89j:11034**

Bergé, A.-M. (*with* Martinet, Jacques) Sur la constante d'Hermite: étude historique. [On Hermite's constant: a historical study] **89g:11032**
Kozioł, Krzysztof Quadratic form schemes determined by Hermitian forms. **89d:11027**
Lewis, D. W. Sums of Hermitian squares. **89f:11059**
Martinet, Jacques *see* **Bergé, A.-M., 89g:11032**
Pfalzgraf, J. On the level of a semilocal ring with involution. **89f:11060**
Rossell i Garriga, Josep M. (*with* Rubió i Díaz, Pere) The signature of symmetric bilinear forms. (Catalan) **89j:11035**
Rousseau, George On a construction for the representation of a positive integer as the sum of four squares. **89c:11055**
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Strassen, V. The asymptotic spectrum of tensors. **89c:11056**

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Carral, Michel Quadratic and λ-Hermitian forms. **89j:18007**
Ebeling, Wolfgang ★ The monodromy groups of isolated singularities of complete intersections. **89d:32051**
Ermolaev, Yu. B. Lie algebras that preserve bilinear forms. (Russian) **89c:17013**
Kahn, Bruno Erratum: "The group of classes modulo 2, following Conner and Perlis" [*Seminar on number theory, 1984–1985* (French), Exp. No. 26, Univ. Bordeaux I, Talence, 1985; MR 88f:11104]. (French) **89a:11116**
Kalinin, I. O. Realization of quadratic forms by smooth manifolds. **89a:57046**
Nagaoka, Shōyū On Siegel series for Hermitian forms. II. **89m:11047**
Piziak, Robert A note on definite quadratic spaces and Baer orderings. **89a:12008**
Robinson, P. L. Spinors and canonical Hermitian forms. **89j:15045**
Sergeĭchuk, V. V. Classification problems for systems of forms and linear mappings. **89h:15018**
Waterhouse, William C. Inner product identities on the unit circle. **89g:15035**

11E41 Class numbers of quadratic and Hermitian forms

Gogishvili, G. P. The structure of genera of positive binary quadratic forms. (Russian) **89c:11057**
Han, Shi An The classes of some positive definite unimodular lattices over $\mathbf{Z}[\sqrt{3}]$ and $\mathbf{Z}[\sqrt{6}]$. **89k:11024**
Kulmatov, A. K. On the finiteness of the number of classes of primitive quadratic forms of Liouville type with an odd number of variables. (Russian) **89i:11051**

Items with secondary classifications in 11E41

Böcherer, S. Das Gaußsche Klassenzahlproblem. [Gauss's class number problem] **89b:11082**

11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

Cipra, Barry A. On a zeta function associated to ternary zero forms. **89a:11035**
Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Arithmetic applications of the hyperbolic lattice point theorem. **89g:11033**
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89g:11033**
Kitaoka, Yoshiyuki Modular forms of degree n and representation by quadratic forms. IV. **89a:11036**
Lachaud, Gilles On real quadratic fields. **89d:11028**
Maksudova, M. K. (*with* Shushbaev, S. Sh.) A method for estimating the remainder term of the Epstein zeta-function. (Russian) **89g:11034**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89g:11033**
Montgomery, Hugh L. Minimal theta functions. **89d:11029**
Ozeki, Michio Examples of even unimodular extremal lattices of rank 40 and their Siegel theta-series of degree 2. **89f:11061**
Shushbaev, S. Sh. *see* **Maksudova, M. K., 89g:11034**
Vepkhvadze, T. V. Generalized theta-functions with characteristics and the representation of numbers by positive quadratic forms. (Russian. English and Georgian summaries) **89e:11021**

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Abdullaev, I. (*with* Kogan, L. A.) Finiteness of quadratic forms of Weil type. (Russian) **89g:11031**
Bombieri, Enrico (*with* Hejhal, Dennis A.) On the zeros of Epstein zeta functions. (French summary) **89c:11136**
Elstrodt, Jürgen *see* **Grunewald, Fritz J.; et al., 89c:22018**
Grunewald, Fritz J. (*with* Elstrodt, Jürgen; Mennicke, Jens L.) Some remarks on discrete subgroups of $\mathrm{SL}_2(\mathbf{C})$. (Russian) **89c:22018**
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Igusa, Jun-ichi Zeta distributions associated with some invariants. **89h:11075**
Koecher, M. Über ganzzahlige Darstellungen quadratischer Formen. [On integral representations of quadratic forms] **89a:11047**
Kogan, L. A. *see* **Abdullaev, I., 89g:11031**
Kondo, Takeshi (*with* Tasaka, Takashi) The theta functions of sublattices of the Leech lattice. II. **89h:11030**
Kramer, Jürg On the linear independence of certain theta-series. **89i:11056**
Kulmatov, A. K. On the finiteness of the number of classes of primitive quadratic forms of Liouville type with an odd number of variables. (Russian) **89i:11051**
Lomadze, G. A. Cusp forms and quadratic forms of prime level and of Nebentypus. I. (Russian) **89d:11026**
Mennicke, Jens L. *see* **Grunewald, Fritz J.; et al., 89c:22018**
Nagaoka, Shōyū On Siegel series for Hermitian forms. II. **89m:11047**
Shavgulidze, K. Sh. Upper bound on the dimension of certain spaces of generalized quaternary theta-series. I. (Russian. Georgian summary) **89j:11041**
— Upper bound on the dimension of certain spaces of generalized quaternary theta-series. II. (Russian. English and Georgian summaries) **89j:11042**
Stopple, Jeffrey A reciprocity law for prime geodesics. **89j:11038**
Sulakvelidze, L. A. Some formulas of Liouville type for the number of representations of numbers by positive quadratic forms with six variables. (Russian) **89j:11096**
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11E57 Classical groups [see also 14Lxx, 20Gxx]

Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Vahlen's group of Clifford matrices and spin-groups. **89b:11031**
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89b:11031**
James, Donald G. Representations of anisotropic unitary groups. **89f:11062**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89b:11031**
Tomanov, G. Sur la structure des groupes algébriques simples de type D_n définis sur des corps de nombres. (English summary) [On the structure of simple algebraic groups of type D_n defined over number fields] **89g:11035**

Items with secondary classifications in 11E57

Bruhat, F. (*with* Tits, J.) Schémas en groupes et immeubles des groupes classiques sur un corps local. II. Groupes unitaires. (English summary) [Group schemes and buildings of classical groups over a local field. II. Unitary groups] **89b:20098**
Cao, You An A generator theorem for the orthogonal group $\mathrm{O}_n(V)$. (Chinese. English summary) **89j:20049**
Chernousov, V. I. The structure of groups of rational points of algebraic groups of type D_l. (Russian. English summary) **89e:20082**
— The projective simplicity of algebraic groups that are split over a quadratic extension of a number field. **89i:20070**
Cremona, J. E. On $\mathrm{GL}(n)$ of a Dedekind domain. **89k:20061**
Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Séries de Poincaré, sommes de Kloosterman et valeurs propres du laplacien pour les groupes de congruence agissant sur un espace hyperbolique. (French summary) [Poincaré series, Kloosterman sums and eigenvalues of the Laplacian for congruence groups acting on hyperbolic spaces] **89c:11086**
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89c:11086**
Humphries, S. P. Free subgroups of $\mathrm{SL}(n,\mathbf{Z})$, $n>2$, generated by transvections. **89e:20091**
Kopeĭko, V. I. Unitary and orthogonal groups over rings with involution. (Russian) **89k:20063**
Li, Zun Xian Quaternion algebra and automorphisms of $\mathrm{PO}_4^+(V)$, $\mathrm{PO}_4'(V)$ and $\mathrm{P}\Omega_4(V)$. **89e:20084**
Meixner, Thomas Folding down classical Tits chamber systems. **89g:20077**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89c:11086**
Pop, Ioan^1 Power maps on special orthogonal groups. **89k:57068**
Proctor, Robert A. Odd symplectic groups. **89c:20065**
Raghunathan, M. S. On the group of norm 1 elements in a division algebra. **89g:11111**
Tits, J. *see* **Bruhat, F., 89b:20098**
Vaserstein, L. N. Normal subgroups of orthogonal groups over commutative rings. **89i:20071**
Vavilov, N. A. Subgroups of split orthogonal groups. **89g:20074**
Wan, Zhe Xian Some recent progress on classical groups in China. **89m:01066**
Wang, Lu Qun *see* **Zhang, Hai Quan, 89j:20054**
Yuan, Bing Cheng The factorization length theorem for the orthogonal subgroup $\mathrm{O}_n(V)$ and its commutator subgroup $\Omega_n(V)$. (Chinese) **89k:20060**
Zhang, Hai Quan (*with* Wang, Lu Qun) The isomorphisms of symplectic groups and their projective groups over Φ-surjective rings. (Chinese. English summary) **89j:20054**

11E70 *K*-theory of quadratic and Hermitian forms

Snaith, Victor Bilinear forms versus Galois representations. **89h:11016**
Uridiya, M. B. The Hermitian K-theory of rings of algebraic integers. (Russian. English and Georgian summaries) **89a:11037**

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Charney, Ruth A generalization of a theorem of Vogtmann. **89h:18010**
Iwakami, Tatsuo The graded Witt ring of a quasi-Pythagorean field. **89a:11042**
Lines, Daniel (*with* Morales, Jorge F.) Grothendieck groups of sesquilinear forms over a ring with involution. **89k:18023**
Morales, Jorge F. *see* **Lines, Daniel, 89k:18023**

11E72 Galois cohomology of linear algebraic groups [see also 20G10]

Berkovich, V. G. Duality theorems in Galois cohomology of commutative algebraic groups. **89a:11038**
Borovoĭ, M. V. Galois cohomology of real reductive groups and real forms of simple Lie algebras. **89i:11052**
Kunyavskiĭ, B. È. Tori that are split over a Galois extension with group S_3. (Russian) (*see* **89a:11006**)
Rapinchuk, A. S. The Hasse principle for symmetric spaces. (Russian. English summary) **89a:11039**
— The congruence subgroup problem for algebraic groups and strong approximation in affine varieties. (Russian. English summary) **89i:11053**

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Betley, S. Homological stability for $\mathrm{O}_{n,n}$ over a local ring. **89b:20090**
Bruhat, F. (*with* Tits, J.) Groupes algébriques sur un corps local. Chapitre III. Compléments et applications à la cohomologie galoisienne. [Algebraic groups over local fields. III. Further remarks and applications to Galois cohomology] **89b:20099**
Colliot-Thélène, J.-L. Surfaces cubiques diagonales. [Diagonal cubic surfaces] **89i:11068**
Hosokawa, H. *see* **Kimura, Tatsuo; et al., 89e:20083**
Kasai, S. *see* **Kimura, Tatsuo; et al., 89e:20083**

Kimura, Tatsuo (*with* Kasai, S.; Hosokawa, H.) Universal transitivity of simple and 2-simple prehomogeneous vector spaces. (French summary) **89e:20083**

Prasad, Gopal (*with* Raghunathan, M. S.) Topological central extensions of $\mathrm{SL}_1(D)$. **89e:22018**

Raghunathan, M. S. *see* **Prasad, Gopal, 89e:22018**

Rapinchuk, A. S. The multiplicative arithmetic of division algebras over number fields and the metaplectic problem. **89h:11074**

Tavgen′, O. I. On the conjectures of Grothendieck and Platonov. (Russian. English summary) **89h:20063**

Tits, J. *see* **Bruhat, F., 89b:20099**

Voskresenskiĭ, V. E. Invariant Demazure models. (Russian) (*see* **89a:11006**)

11E76 Forms of degree higher than two

Dixmier, Jacques (*with* Erdős, Paul; Nicolas, J.-L.) Sur le nombre d'invariants fondamentaux des formes binaires. (English summary) [On the number of fundamental invariants of binary forms] **89a:11040**

Erdős, Paul *see* **Dixmier, Jacques; et al., 89a:11040**

Harrison, David Kent (*with* Pareigis, Bodo) Witt rings of higher degree forms. **89j:11036**

Kanevsky, Dimitri Application of the conjecture on the Manin obstruction to various Diophantine problems. **89b:11032**

Nicolas, J.-L. *see* **Dixmier, Jacques; et al., 89a:11040**

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Powers, Victoria Higher level reduced Witt rings of skew fields. **89g:11036**

Revoy, Philippe Niveaux d'ordre supérieur des corps et des anneaux. (English summary) [Higher-order levels of fields and rings] **89k:11025**

Items with secondary classifications in 11E76

Alemu, Yismaw On zeros of diagonal forms over $\mathfrak{p}$-adic fields. **89c:11061**

Colliot-Thélène, J.-L. Arithmétique des variétés rationnelles et problèmes birationnels. [Arithmetic of rational varieties and birational problems] **89d:11051**

Győry, K. (*with* Shorey, T. N.) On the denominators of equivalent algebraic numbers. **89c:11113**

Hooley, Christopher On nonary cubic forms. **89h:11014**

Lascoux, Alain Forme canonique d'une forme binaire. (English summary) [The canonical form of a binary form] **89a:12005**

Nowicki, Andrzej Władysław On the Jacobian equation $J(f,g)=0$ for polynomials in $k[x,y]$. **89d:12003**

Salberger, Per On the arithmetic of certain intersections of two quadrics. **89m:11061**

Schmid, Joachim Eine Bemerkung zu den höheren Pythagoraszahlen reeller Körper. (English summary) [A comment on the higher Pythagoras numbers of real fields] **89e:12005**

Shorey, T. N. *see* **Győry, K., 89c:11113**

11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Arason, Jón Kr. (*with* Elman, Richard; Jacob, Bill) Rigid elements, valuations, and realization of Witt rings. **89a:11041**

DeMeyer, F. R. (*with* Harrison, David Kent; Miranda, Rick) Quadratic forms over **Q** and Galois extensions of commutative rings. **89m:11036**

Elman, Richard *see* **Arason, Jón Kr.; et al., 89a:11041**

Fernández-Carmena, F. Correction: "On the injectivity of the map of the Witt group of a scheme into the Witt group of its function field" [Math. Ann. 277 (1987), no. 3, 453–468; MR 88h:11027]. **89b:11033**

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Iwakami, Tatsuo The graded Witt ring of a quasi-Pythagorean field. **89a:11042**

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Kozioł, Krzysztof Quasi-Pythagorean algebraic extensions of rational numbers. **89a:11043**

Kula, M. (*with* Szczepanik, L.; Szymiczek, K.) Quadratic form schemes and quaternionic schemes. **89i:11054**

Leep, David B. (*with* Marshall, Murray) Isomorphisms and automorphisms of Witt rings. **89c:11059**

Lewis, D. W. On the level. **89f:11063**

Lomadze, V. G. Quadratic forms over multidimensional local fields. (Russian) **89b:11034**

Mammone, Pasquale Similitude de formes quadratiques et corps de fonctions en caractéristique 2. [Similarity of quadratic forms and function fields in characteristic 2] **89b:11035**

Marshall, Murray *see* **Leep, David B., 89c:11059**

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Mulcahy, Colm An abstract approach to higher level forms and rigidity. **89d:11030**

Sładek, Andrzej Witt rings of complete skew fields. II. **89a:11044**

— Witt rings of complete skew fields. **89d:11031**

Szczepanik, L. *see* **Kula, M.; et al., 89i:11054**

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Trappers, Dirk The Witt ring of a graded field. **89a:11045**

Waterhouse, William C. Discriminants of étale algebras and related structures. **89a:11046**

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Items with secondary classifications in 11E81

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Barge, Jean (*with* Ojanguren, M.) Fibrés algébriques sur une surface réelle. [Algebraic bundles on a real surface] **89d:14032**

Craven, Thomas C. Fields maximal with respect to a set of orderings. **89e:12004**

Elman, Richard (*with* Wadsworth, Adrian R.) Hereditarily quadratically closed fields. **89g:12004**

Harrison, David Kent (*with* Pareigis, Bodo) Witt rings of higher degree forms. **89j:11036**

Herzog, Jürgen Linear Cohen-Macaulay modules on integral quadrics. **89a:13016**

von Höhne, Hans-Joachim On weakly positive unit forms. **89g:15033**

Katz, Gabriel Witt analogs of the Burnside ring and integrality theorems. I. **89d:57053**

— Witt analogs of the Burnside ring and integrality theorems. II. **89d:57054**

Kneser, Martin Komposition quadratischer Formen. [Composition of quadratic forms] **89c:11060**

Krishnamani, Vatsala (*with* Yucas, Joseph) Quadratic forms and linkage of quaternion algebras. **89f:11053**

Magurn, B. A. *see* **Vaserstein, L. N., 89c:16034**

Ojanguren, M. (*with* Ayoub, G.) The Witt group of a real surface. **89c:14035**

— *see also* **Barge, Jean, 89d:14032**

Pareigis, Bodo *see* **Harrison, David Kent, 89j:11036**

Parimala, R. Witt groups of conics, elliptic, and hyperelliptic curves. **89a:14028**

Piziak, Robert A note on definite quadratic spaces and Baer orderings. **89a:12008**

Powers, Victoria Higher level reduced Witt rings of skew fields. **89g:11036**

Prószyński, Andrzej ★ Odwzorowania wyższych stopni. (Polish) [Higher-order mappings] **89b:15043**

Vaserstein, L. N. (*with* Magurn, B. A.) Prestabilization for K_1 of Banach algebras. **89c:16034**

Wadsworth, Adrian R. *see* **Elman, Richard, 89g:12004**

Yucas, Joseph Generalized Hilbert fields, quaternion algebra structure and block design counting. **89e:11020**

— *see also* **Krishnamani, Vatsala, 89f:11053**

Zeng, Guang Xing A characterization of preordered fields with the weak Hilbert property. **89i:12003**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Helmstetter, Jacques Monoïdes de Clifford et déformations d'algèbres de Clifford. [Clifford monoids and deformations of Clifford algebras] **89h:11017**

Keller, Bernhard A remark on quadratic spaces over noncommutative semilocal rings. **89i:11055**

Kneser, Martin Komposition quadratischer Formen. [Composition of quadratic forms] **89c:11060**

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Boukhobza, Mustapha Simplification des modules quadratiques sur l'anneau des entiers relatifs. (English summary) [Simplification of quadratic modules over the ring of relative integers] **89i:11047**

Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Vahlen's group of Clifford matrices and spin-groups. **89b:11031**

Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89b:11031**

Hellegouarch, Yves Propriétés géométrico-arithmétiques des algèbres à involution. [Geometric and arithmetical properties of algebras with involution] **89k:16020**

Herzog, Jürgen Linear Cohen-Macaulay modules on integral quadrics. **89a:13016**

Li, Zun Xian Quaternion algebra and automorphisms of $\mathrm{PO}_4^+(V)$, $\mathrm{PO}_4'(V)$ and $\mathrm{P}\Omega_4(V)$. **89e:20084**

Lounesto, Pertti (*with* Wene, G. P.) Idempotent structure of Clifford algebras. **89d:15006**

Magneron, Bernard Spineurs purs et description cohomologique des groupes spinoriels. (English summary) [Pure spinors and cohomological description of spinor groups] **89h:55009**

Mammone, Pasquale On the tensor product of quaternion algebras of characteristic two. **89b:16016**

— (*with* Shapiro, Daniel B.) The Albert quadratic form for an algebra of degree four. **89g:16029**

Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89b:11031**

Shapiro, Daniel B. *see* **Mammone, Pasquale, 89g:16029**

Waterhouse, William C. Discriminants of étale algebras and related structures. **89a:11046**

Wene, G. P. *see* **Lounesto, Pertti, 89d:15006**

11E92 Integer matrices [see also 15A36]

Koecher, M. Über ganzzahlige Darstellungen quadratischer Formen. [On integral representations of quadratic forms] **89a:11047**

Shindô, Kôji An extension of ideal matrices. **89m:11037**

Items with secondary classifications in 11E92

Low, Lewis (*with* Pitman, Jane; Wolff, Alison) Simultaneous diagonal congruences. **89g:11030**

Pitman, Jane *see* **Low, Lewis; et al., 89g:11030**

Torriani, Hugo H. Faithful integral and modular representations of the Klein bottle group. **89i:20017**

Wolff, Alison *see* **Low, Lewis; et al., 89g:11030**

11E95 p-adic theory

Alemu, Yismaw On zeros of diagonal forms over $\mathfrak{p}$-adic fields. **89c:11061**

Hironaka, Yumiko On a denominator of Kitaoka's power series attached to local densities. **89m:11038**

Items with secondary classifications in 11E95

Adolphson, Alan (*with* Sperber, Steven) p-adic estimates for exponential sums and the theorem of Chevalley-Warning. **89d:11112**

Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**

Sperber, Steven *see* **Adolphson, Alan, 89d:11112**

Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**

1E99 None of the above, but in this section

ikulin, V. V. Discrete reflection groups in Lobachevsky spaces and algebraic surfaces. **89d:11032**

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aksalary, Jerzy K. (*with* Hauke, Jan) Partial orderings of matrices referring to singular values or eigenvalues. **89a:15007**
rez, B. The Galois structure of the trace form in extensions of odd prime degree. **89m:11104**
auke, Jan *see* **Baksalary, Jerzy K., 89a:15007**
oehnke, Hans-Jürgen Algebraic problems of Brandt's symbolics. **89b:18009**
nuzuka, Masaaki *see* **Kimura, Tatsuo; et al., 89k:11101**
asai, S. *see* **Kimura, Tatsuo; et al., 89k:11101**
imura, Tatsuo (*with* Kasai, S.; Taguchi, Masanobu; Inuzuka, Masaaki) Some P.V.-equivalences and a classification of 2-simple prehomogeneous vector spaces of type II. **89k:11101**
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Mednikh, A. D. Maximal discrete extensions of Lanner groups. (Ukrainian. Russian summary) (Not in MR)

11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

11F03 Modular and automorphic functions

Cohn, Harvey Fricke's two-valued modular equations. **89f:11064**
Dorman, David R. Special values of the elliptic modular function and factorization formulae. **89k:11026**
Venkov, A. B. Examples of the effective solution of the Riemann-Hilbert problem on the reconstruction of a differential equation from a monodromy group in the framework of the theory of automorphic functions. (Russian) **89g:11037**
Wilson, Gregory L. A family of modular functions arising from the theta function. **89b:11036**

Items with secondary classifications in 11F03

Aulaskari, Rauno Criteria for automorphic functions to belong to $\mathscr{R}_0(\Gamma)$ and $N_0(\Gamma)$. **89a:30036**
Bost, J.-B. (*with* Mestre, Jean-François) Moyenne arithmético-géométrique et périodes des courbes de genre 1 et 2. [Arithmetic-geometric mean and periods of curves of genus 1 and 2] **89k:14072**
Köhler, Günter Theta series on the Hecke groups $G(\sqrt{2})$ and $G(\sqrt{3})$. **89b:11040**
Kravtsev, S. V. Some properties of automorphic functions of rotation that are connected with the rate of growth of their spherical Ahlfors-Shimizu characteristic. (Russian) **89a:30037**
Levin, A. M. Supersymmetric elliptic and modular functions. **89j:14026**
Mestre, Jean-François *see* **Bost, J.-B., 89k:14072**
Zagier, Don The remarkable dilogarithm. **89f:33024**

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

Beardon, A. F. Fuchsian groups and *n*th roots of parabolic generators. **89m:11039**
Fine, Benjamin Fuchsian embeddings in the Bianchi groups. **89a:11048**
Gilman, Jane On the existence of elliptics in subgroups of PSL(2, **R**): a graphical picture. **89j:11037**
— Inequalities in discrete subgroups of PSL(2, **R**). **89f:11065**
Ignatov, Yu. A. Rational nonfree points of the complex plane. (Russian) **89e:11022**
Maclachlan, C. Fuchsian subgroups of the groups $\mathrm{PSL}_2(O_d)$. **89a:11049**
Mushtaq, Q. Some remarks on coset diagrams for the modular group. **89f:11066**
Stopple, Jeffrey A reciprocity law for prime geodesics. **89j:11038**

Items with secondary classifications in 11F06

Abels, Herbert ★ Finite presentability of *S*-arithmetic groups. Compact presentability of solvable groups. **89b:22017**
Etayo Gordejuela, José Javier (*with* Martínez, Ernesto) Hyperbolic polygons and NEC groups. **89m:32037**
Fine, Benjamin *see* **Frohman, Charles, 89a:20027**
Floyd, William J. (*with* Plotnick, Steven P.) Symmetries of planar growth functions. **89f:22016**
Frohman, Charles (*with* Fine, Benjamin) Some amalgam structures for Bianchi groups. **89a:20027**
Gilman, Jane A characterization of finite subgroups of the mapping-class group. **89c:57001**
Humphries, S. P. (*with* Long, D. D.) On the Mal′cev quotients of certain hyperbolic link groups. **89a:22018**
Jørgensen, Palle E. T. (*with* Pedersen, Steen) Harmonic analysis on tori. **89e:22010**
Krieg, Aloys Eisenstein-series on real, complex, and quaternionic half-spaces. **89f:11074**
Long, D. D. *see* **Humphries, S. P., 89a:22018**
Lu, Ning On the mapping class group of the torus. **89f:20039**
Macbeath, A. M. Erratum: "Commensurability of co-compact three-dimensional hyperbolic manifolds [groups]" [Duke Math. J. **50** (1983), no. 4, 1245–1253; MR 85f:22013]. **89b:22019**
Martínez, Ernesto *see* **Etayo Gordejuela, José Javier, 89m:32037**
Mushtaq, Q. Modular group acting on real quadratic fields. **89e:11065**
Newman, Morris Counting modular matrices with specified Euclidean norm. **89b:15025**
Nikulin, V. V. Discrete reflection groups in Lobachevsky spaces and algebraic surfaces. **89d:11032**
Pedersen, Steen *see* **Jørgensen, Palle E. T., 89e:22010**
Plotnick, Steven P. *see* **Floyd, William J., 89f:22016**
Schellekens, A. N. Multiloop modular invariance of the covariant lattice construction of fermionic strings. **89d:81112**
Series, C. The Markoff spectrum in the Hecke group G_5. **89g:11056**
Tan, De Lin On two-generator discrete groups of Möbius transformations. **89k:20067**
Torriani, Hugo H. Faithful integral and modular representations of the Klein bottle group. **89i:20017**
Tukia, Pekka Homeomorphic conjugates of Fuchsian groups. **89m:30047**
Waterman, P. L. Purely elliptic Möbius groups. **89i:51020**
Zakharov, S. A. Analytic continuation of a Dirichlet series. (Russian) **89c:11137**

11F11 Modular forms, one variable

Akiyama, Shigeki *see* **Hiramatsu, Toyokazu, 89k:11028**
Berndt, Bruce Ramanujan's modular equations. **89e:11023**
Christian, Ulrich Über gewisse Poincarésche Reihen zu elliptischen Modulgruppen. (English summary) [On certain Poincaré series for elliptic modular groups] **89c:11062**
Chuman, Yasuhiro On the Fourier coefficients of Eisenstein series of Nebentype for $\Gamma_0(N)$. **89k:11027**
Duke, W. Hyperbolic distribution problems and half-integral weight Maass forms. **89d:11033**
Eichler, Martin Eine neue Klasse von Modulformen und Modulfunktionen. II. [A new class of modular forms and modular functions. II] **89c:11063**
Hiramatsu, Toyokazu Theory of automorphic forms of weight 1. **89m:11040**
— (*with* Akiyama, Shigeki) On some dimension formula for automorphic forms of weight one. III. **89k:11028**
Parson, L. Alayne Norms of integrable cusp forms. **89e:11024**
Perrin-Riou, Bernadette Points de Heegner et dérivées de fonctions *L* *p*-adiques. [Heegner points and derivatives of *p*-adic *L*-functions] **89d:11034**
Raghavan, Srinivasacharya Euler products, modular identities and elliptic integrals in Ramanujan's manuscripts. I. **89f:11067**
Rangachari, S. S. Euler products, modular identities and elliptic integrals in Ramanujan's manuscripts. II. **89f:11068**
Skoruppa, Nils-Peter (*with* Zagier, Don) Jacobi forms and a certain space of modular forms. **89k:11029**
Zagier, Don *see* **Skoruppa, Nils-Peter, 89k:11029**

Items with secondary classifications in 11F11

Arnaud, Bertrand Carré symétrique d'une forme primitive. (English summary) [The symmetric square of a primitive form] **89h:11019**
Brylinski, Jean-Luc Remark on Witten's modular forms. **89g:57035**
Chouikha, Raouf Nouveau développement de fonctions elliptiques. (English summary) [New expansion for elliptic functions] **89e:33002**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Elliptic modular functions and elliptic genera. **89h:57020**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89h:57020**
Evans, Ronald J. Ramanujan's second notebook: asymptotic expansions for hypergeometric series and related functions. **89c:33003**
Gerzhoĭ, P. I. (*with* Panchishkin, A. A.) A finiteness criterion for the number of rational points for twisted Weil elliptic curves. (Russian) **89b:11053**
Hida, Haruzo Modules of congruence of Hecke algebras and *L*-functions associated with cusp forms. **89i:11058**
— A *p*-adic measure attached to the zeta functions associated with two elliptic modular forms. II. **89k:11120**
Hiramatsu, Toyokazu (*with* Sato, Makoto; Takada, Ichiro) On S_3-type modular forms of weight 1. **89c:11069**
Ishikawa, Hirofumi *see* **Tanigawa, Yoshio, 89j:11039**
Lerche, W. (*with* Warner, N. P.) Index theorems in $N = 2$ superconformal theories. **89g:81083**
Lomadze, G. A. Cusp forms and quadratic forms of prime level and of Nebentypus. I. (Russian) **89d:11026**
Manickam, M. (*with* Ramakrishnan, B.; Vasudevan, T. C.) Hecke operators on modular forms of half-integral weight. **89m:11045**
Moore, Gregory W. Atkin-Lehner symmetry. **89c:81151a**
— Erratum: "Atkin-Lehner symmetry". **89c:81151b**
Nag, Subhashis Conformally natural Ahlfors-Weill sections and Bers' reproducing formulas. **89h:30032**
Panchishkin, A. A. *see* **Gerzhoĭ, P. I., 89b:11053**
Ramakrishnan, B. *see* **Manickam, M.; et al., 89m:11045**
Ramanathan, K. G. Ramanujan's *Notebooks*. **89a:01105**
(Ramanujan, Srinivasa) *see* **Ramanathan, K. G., 89a:01105**
Ramaroson, François Some remarks on the generation of subfields of ring class fields. **89i:11123**
Rankin, R. A. Ramanujan's tau-function and its generalizations. **89h:11018**
Reyssat, Éric Approximation des moyennes arithmético-géométriques. [Approximation of arithmetic-geometric means] **89h:11037**
Sato, Makoto *see* **Hiramatsu, Toyokazu; et al., 89c:11069**
Stevens, Glenn On the periods of modular elliptic curves. **89i:11064**
Takada, Ichiro Dedekind sums of $\Gamma(N)$. **89a:11051**
— *see also* **Hiramatsu, Toyokazu; et al., 89c:11069**
Tanigawa, Yoshio (*with* Ishikawa, Hirofumi) The dimension formula of the space of cusp forms of weight one for $\Gamma_0(p)$. **89j:11039**
Toyoizumi, Masao On certain infinite products. III. **89m:11048**
Vasudevan, T. C. *see* **Manickam, M.; et al., 89m:11045**
Warner, Garth Application of the Selberg trace formula to the Riemann-Roch theorem. **89c:11088**

Warner, N. P. *see* **Lerche, W., 89g:81083**
Wilson, Gregory L. A family of modular functions arising from the theta function. **89b:11036**
Witten, Edward Elliptic genera and quantum field theory. **89i:57017**

11F12 Automorphic forms, one variable

Ishikawa, Hirofumi *see* **Tanigawa, Yoshio, 89j:11039**
Lee, Min Ho Mixed cusp forms and holomorphic forms on elliptic varieties. **89d:11035**
Niwa, Shinji The inner product of an automorphic wave form with the pullback of an Eisenstein series. **89c:11064**
Stiller, Peter F. Classical automorphic forms and hypergeometric functions. **89b:11037**
Tanigawa, Yoshio (*with* Ishikawa, Hirofumi) The dimension formula of the space of cusp forms of weight one for $\Gamma_0(p)$. **89j:11039**

Items with secondary classifications in 11F12

Furusawa, Masaaki (*with* Tezuka, M.; Yagita, Nobuaki) On the cohomology of classifying spaces of torus bundles and automorphic forms. **89f:57060**
Pei, Ding Yi Lifting of Eisenstein space of half-integral weight. **89j:11048**
Tezuka, M. *see* **Furusawa, Masaaki; et al., 89f:57060**
Yagita, Nobuaki *see* **Furusawa, Masaaki; et al., 89f:57060**

11F20 Dedekind eta function, Dedekind sums

Harada, Koichiro Another look at the Frame shapes of finite groups. **89e:11025**
Hirooka, Eiko Higher-dimensional Dedekind sums. **89j:11040**
Ito, Hiroshi On a property of elliptic Dedekind sums. **89a:11050**
Katase, Kiyoshi On the value of Dedekind sums and eta-invariants for 3-dimensional lens spaces. **89b:11038**
Lin, Ts'ung Yüan Dedekind sums—an algebraic approach. **89k:11030**
Myerson, Gerald Dedekind sums and uniform distribution. **89e:11026**
Ramanathan, K. G. Generalisations of some theorems of Ramanujan. **89k:11031**
Redmond, Don (*with* Sitaramachandra Rao, R.; Sivaramakrishnan, R.) On Dedekind sums and analogs. **89k:11032**
Sitaramachandra Rao, R. Dedekind and Hardy sums. **89c:11065**
— *see also* **Redmond, Don; et al., 89k:11032**
Sivaramakrishnan, R. *see* **Redmond, Don; et al., 89k:11032**
Snyder, Chip p-adic interpolation of Dedekind sums. **89b:11039**
Takada, Ichiro Dedekind sums of $\Gamma(N)$. **89a:11051**

Items with secondary classifications in 11F20

Arakawa, Tsuneo Dirichlet series $\sum_{n=1}^{\infty} \cot \pi n\alpha/n^s$, Dedekind sums, and Hecke L-functions for real quadratic fields. **89i:11124**
Atiyah, Michael The logarithm of the Dedekind η-function. **89h:58177**
Hayashi, Heima Note on an index formula of elliptic units in a ring class field. II. **89j:11058**
Hiramatsu, Toyokazu (*with* Sato, Makoto; Takada, Ichiro) On S_3-type modular forms of weight 1. **89c:11069**
Rangachari, S. S. Euler products, modular identities and elliptic integrals in Ramanujan's manuscripts. II. **89f:11068**
Sato, Makoto *see* **Hiramatsu, Toyokazu; et al., 89c:11069**
Stiller, Peter F. Classical automorphic forms and hypergeometric functions. **89b:11037**
Takada, Ichiro *see* **Hiramatsu, Toyokazu; et al., 89c:11069**
Takegahara, Yugen The character rings of finite groups and generalized Dedekind sums. (*see* **89k:16001**)
Toyoizumi, Masao On certain infinite products. III. **89m:11048**
Vardi, Ilan A relation between Dedekind sums and Kloosterman sums. **89d:11066**
Weselmann, Uwe Eisensteinkohomologie und Dedekindsummen für GL_2 über imaginär-quadratischen Zahlkörpern. [Eisenstein cohomology and Dedekind sums for GL_2 over imaginary quadratic number fields] **89i:11062**

11F22 Relationship to Lie algebras and finite simple groups

Koike, Masao Moonshines of $\mathrm{PSL}_2(F_q)$ and the automorphism group of Leech lattice. **89f:11069**
Mason, Geoffrey Finite groups and modular functions. **89c:11066**
(Norton, S. P.) *see* **Mason, Geoffrey, 89c:11066**

Items with secondary classifications in 11F22

Agarwal, Ashok Kumar[1] (*with* Andrews, G. E.) On Asai's polynomials related to the twisting operators of finite classical groups. **89m:20051**
Andrews, G. E. *see* **Agarwal, Ashok Kumar**[1]**, 89m:20051**
Cappelli, A. (*with* Itzykson, C.; Zuber, J.-B.) The A-D-E classification of minimal and $A_1^{(1)}$ conformal invariant theories. **89b:81178**
(Frenkel, Igor B.) *see* **Tits, J., 89i:20030**
Itzykson, C. *see* **Cappelli, A.; et al., 89b:81178**
Jimbo, Michio *see* **Okado, Masato; et al., 89j:82083**
(Lepowsky, J.) *see* **Tits, J., 89i:20030**
Mason, Geoffrey Groups, discriminants and the spinor norm. **89j:11030**
(Meurman, A.) *see* **Tits, J., 89i:20030**
Miwa, Tetsuji *see* **Okado, Masato; et al., 89j:82083**
Okado, Masato (*with* Jimbo, Michio; Miwa, Tetsuji) Two-dimensional solvable lattice models and modular functions. (Japanese) **89j:82083**
Qiu, Zongan Modular invariant partition functions for $N = 2$ superconformal field theories. **89d:81109**
Tits, J. Théorie des groupes. [Group theory] **89h:20027**
— Le module du "moonshine" [d'après I. Frenkel, J. Lepowsky et A. Meurman]. [The "moonshine" module [after I. Frenkel, J. Lepowsky and A. Meurman]] **89i:20030**
Yü, Wên Ch'ing Dimension formulae for the vector spaces of Siegel cusp forms of degree three. II. **89b:11045**
Zuber, J.-B. *see* **Cappelli, A.; et al., 89b:81178**

11F25 Hecke-Petersson operators, differential operators (1 variable)

Murty, Maruti Ram (*with* Murty, V. Kumar; Saradha, N.) Modular forms and the Chebotarev density theorem. **89d:11036**
Murty, V. Kumar *see* **Murty, Maruti Ram; et al., 89d:11036**
Saradha, N. *see* **Murty, Maruti Ram; et al., 89d:11036**

Items with secondary classifications in 11F25

Kirwan, F. C. (*with* Lee, Ronnie; Weintraub, Steven H.) Quotients of the complex ball by discrete groups. **89j:32034**
Lee, Ronnie *see* **Kirwan, F. C.; et al., 89j:32034**
Ponomarev, Paul Eichler commutation relations for theta series of Nebentypus. **89i:11057**
Proskurin, N. V. On cubic symplectic metaplectic forms. **89d:11043**
Skoruppa, Nils-Peter (*with* Zagier, Don) Jacobi forms and a certain space of modular forms. **89k:11029**
Takhtadzhyan, L. A. *see* **Zograf, P. G., 89a:32022**
Weintraub, Steven H. *see* **Kirwan, F. C.; et al., 89j:32034**
Zagier, Don *see* **Skoruppa, Nils-Peter, 89k:11029**
Zograf, P. G. (*with* Takhtadzhyan, L. A.) Potential of the Weil-Petersson metric on Torelli space. (Russian) **89a:32022**

11F27 Theta series; Weil representation

Agarwal, Ratan P. Ramanujan and theta functions. (*see* **89m:01070**)
Kato, Shin-ichi A remark on Maass wave forms attached to real quadratic fields. **89g:11038**
Köhler, Günter Theta series on the Hecke groups $G(\sqrt{2})$ and $G(\sqrt{3})$. **89b:11040**
Kramer, Jürg On the linear independence of certain theta-series. **89i:11056**
Kudla, Stephen S. (*with* Millson, John J.) The theta correspondence and harmonic forms. II. **89b:11041**
Millson, John J. *see* **Kudla, Stephen S., 89b:11041**
Opolka, H. Embedding self-dual codes into projective space. (*see* **89b:94002**)
Ponomarev, Paul Eichler commutation relations for theta series of Nebentypus. **89i:11057**
Proskurin, N. V. Cubic symplectic theta-functions. (Russian) **89d:11037**
(Ramanujan, Srinivasa) *see* **Agarwal, Ratan P., (89m:01070)**
Shavgulidze, K. Sh. Upper bound on the dimension of certain spaces of generalized quaternary theta-series. I. (Russian. Georgian summary) **89j:11041**
— Upper bound on the dimension of certain spaces of generalized quaternary theta-series. II. (Russian. English and Georgian summaries) **89j:11042**
Shiga, Hironori On the algebraicity of the ratio of special theta constants. **89j:11043**
Vepkhvadze, T. V. The behavior of theta-functions and their derivatives under linear substitutions. (Russian) **89m:11041**
Waldspurger, Jean-Loup Représentation métaplectique et conjectures de Howe. [The metaplectic representation and Howe's conjectures] **89g:11039**

Items with secondary classifications in 11F27

Agarwal, Ashok Kumar[1] (*with* Andrews, G. E.) On Asai's polynomials related to the twisting operators of finite classical groups. **89m:20051**
Andrews, G. E. (*with* Dyson, Freeman J.; Hickerson, Dean) Partitions and indefinite quadratic forms. **89f:11071**
— *see also* **Agarwal, Ashok Kumar**[1]**, 89m:20051**
Andrianov, Anatoliĭ Nikolaevich Spherical theta-series. **89b:11044**
Cohen, Henri q-identities for Maass waveforms. **89f:11072**
Cohn, Harvey Fricke's two-valued modular equations. **89f:11064**
Coutsias, Evangelos A. *see* **Kazarinoff, Nicholas D., 89d:58084**
David, Sinnou Fonctions thêta et points de torsion des variétés abéliennes. (English summary) [Theta functions and torsion points of abelian varieties] **89b:11047**
Dorman, David R. Special values of the elliptic modular function and factorization formulae. **89k:11026**
Dyson, Freeman J. *see* **Andrews, G. E.; et al., 89f:11071**
Eichler, Martin Eine neue Klasse von Modulformen und Modulfunktionen. II. [A new class of modular forms and modular functions. II] **89c:11063**
Grant, David A generalization of Jacobi's derivative formula to dimension two. **89m:14024**
Hickerson, Dean *see* **Andrews, G. E.; et al., 89f:11071**
Hiramatsu, Toyokazu Theory of automorphic forms of weight 1. **89m:11040**
Igusa, Jun-ichi Zeta distributions associated with some invariants. **89h:11075**
Kazarinoff, Nicholas D. (*with* Coutsias, Evangelos A.) On Cornu spirals. Disorder, self-similarity, and Jacobi's $\theta_3(v, \tau)$. **89d:58084**
Koch, Helmut V. Unimodular lattices and self-dual codes. **89e:11036**
Kondo, Takeshi (*with* Tasaka, Takashi) The theta functions of sublattices of the Leech lattice. II. **89h:11030**
Lee, Ronnie (*with* Weintraub, Steven H.) On the transformation law for theta-constants. **89a:32038**
Lomadze, G. A. Cusp forms and quadratic forms of prime level and of Nebentypus. I. (Russian) **89d:11026**
Mason, Geoffrey Groups, discriminants and the spinor norm. **89j:11030**
Montgomery, Hugh L. Minimal theta functions. **89d:11029**
Opolka, H. The finite Fourier-transform as a modular substitution. **89j:11052**
Proskurin, N. V. The group $G_2(\mathbf{C})$ in connection with the theory of metaplectic forms. (Russian) **89i:22021**
Przebinda, Tomasz On Howe's duality theorem. **89j:22031**
Smirnov, A. O. A matrix analogue of a theorem of Appell and reductions of multidimensional Riemann theta-functions. **89f:14049**
Tasaka, Takashi *see* **Kondo, Takeshi, 89h:11030**
Tong, Yue Lin Lawrence (*with* Wang, Shu Ping) Construction of cohomology of discrete groups. **89g:32053**
Vepkhvadze, T. V. Generalized theta-functions with characteristics and the representation of numbers by positive quadratic forms. (Russian. English and Georgian summaries) **89e:11021**

Waldspurger, Jean-Loup Un exercice sur GSp$(4, F)$ et les représentations de Weil. [An exercise on GSp$(4, F)$ and Weil representations] **89a:22033**
Walker, Peter L. On the Euler-Maclaurin summation formula for alternating series and a new proof of the functional equation for $\theta(x)$. **89i:33003**
Wang, Shu Ping *see* **Tong, Yue Lin Lawrence, 89g:32053**
Weintraub, Steven H. *see* **Lee, Ronnie, 89a:32038**

11F30 Fourier coefficients of automorphic forms

Akbarov, M. K. Asymptotic behavior of the sums of Fourier coefficients of cusp forms. (Russian) **89c:11067**
Böcherer, S. (*with* Raghavan, Srinivasacharya) On Fourier coefficients of Siegel modular forms. **89c:11068**
Hiramatsu, Toyokazu (*with* Sato, Makoto; Takada, Ichiro) On S_3-type modular forms of weight 1. **89c:11069**
Meurman, T. On exponential sums involving the Fourier coefficients of Maass wave forms. **89c:11070**
Odoni, R. W. K. An application of the S-unit theorem to modular forms on $\Gamma_0(N)$. **89j:11044**
Patterson, S. J. Metaplectic forms and Gauss sums. I. **89f:11070**
Raghavan, Srinivasacharya *see* **Böcherer, S., 89c:11068**
Sato, Makoto *see* **Hiramatsu, Toyokazu; et al., 89c:11069**
Styer, Robert Eisenstein series over complex quadratic fields when the class number exceeds one. **89b:11042**
Takada, Ichiro *see* **Hiramatsu, Toyokazu; et al., 89c:11069**

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Arenas, Angela (*with* Bayer, Pilar) Arithmetic behaviour of the sums of three squares. **89c:11053**
Bayer, Pilar *see* **Arenas, Angela, 89c:11053**
Christian, Ulrich Über gewisse Poincarésche Reihen zu elliptischen Modulgruppen. (English summary) [On certain Poincaré series for elliptic modular groups] **89c:11062**
Chuman, Yasuhiro On the Fourier coefficients of Eisenstein series of Nebentype for $\Gamma_0(N)$. **89k:11027**
Duke, W. Fourth moments of L-functions attached to newforms. **89i:11060**
— Hyperbolic distribution problems and half-integral weight Maass forms. **89d:11033**
Gross, Benedict H. (*with* Kohnen, Winfried; Zagier, Don) Heegner points and derivatives of L-series. II. **89i:11069**
Klingen, Helmut Metrisierungstheorie und Jacobiformen. [Metrization theory and Jacobi forms] **89c:11076**
Kohnen, Winfried *see* **Gross, Benedict H.; et al., 89i:11069**
Murty, Maruti Ram The Ramanujan τ function. **89e:11027**
Panchishkin, A. A. A functional equation of the non-Archimedian Rankin convolution. **89d:11044**
Proskurin, N. V. On cubic symplectic metaplectic forms. **89d:11043**
Rankin, R. A. Ramanujan's tau-function and its generalizations. **89h:11018**
Swinnerton-Dyer, H. P. F. Congruence properties of $\tau(n)$. **89e:11028**
Zagier, Don *see* **Gross, Benedict H.; et al., 89i:11069**

11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

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Perrin-Riou, Bernadette Fonctions L p-adiques associées à une forme modulaire et à un corps quadratique imaginaire. [p-adic L-functions associated to a modular form and an imaginary quadratic field] **89m:11043**
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11F35 Ramanujan τ-function

Andrews, G. E. (*with* Dyson, Freeman J.; Hickerson, Dean) Partitions and indefinite quadratic forms. **89f:11071**
Cohen, Henri q-identities for Maass waveforms. **89f:11072**
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— The Ramanujan τ function. **89e:11027**
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— (*with* Friedberg, Solomon; Goldfeld, Dorian) Poincaré series and Kloosterman sums for SL$(3, \mathbf{Z})$. **89j:11047**
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Hafner, James Lee Some remarks on odd Maass wave forms (and a correction to: "Zeros of L-functions attached to Maass forms" [Math. Z. **190** (1985), no. 1, 113–128; MR 86m:11034] by Hafner, C. Epstein and P. Sarnak). **89a:11056**
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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

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Baily, Walter L., Jr. Reciprocity laws for special values of Hilbert modular functions. **89j:11049**
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Kashina, E. A. Generalized theta series in algebraic number fields. (Russian) **89j:11050**
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Panchishkin, A. A. Convolutions of Hilbert modular forms and their non-Archimedean analogues. (Russian) **89k:11033**
Ramakrishnan, Dinakar Arithmetic of Hilbert-Blumenthal surfaces. **89f:11073**
Tsuyumine, Shigeaki Automorphy factors for a Hilbert modular group. **89k:11034**
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11F46 Siegel modular groups and their modular and automorphic forms

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— Metrisierungstheorie und Jacobiformen. [Metrization theory and Jacobi forms] **89c:11075**
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Nagaoka, Shōyū On Siegel series for Hermitian forms. II. **89m:11047**
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— Multitensors of differential forms on the Siegel modular variety and on its subvarieties. **89c:11078**
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Yoshida, Hiroyuki On representations of finite groups in the space of Siegel modular forms and theta series. **89j:11053**
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Bouwknegt, Peter On the construction of modular invariant partition functions. **89h:17024**
Chai, Ching-Li Siegel moduli schemes and their compactifications over **C**. (*see* **89b:14029**)
Feustel, J. Representation of Picard modular forms by theta constants. **89i:11059**
Kitaoka, Yoshiyuki Modular forms of degree n and representation by quadratic forms. IV. **89a:11036**
Knöller, F. W. Die Fundamentalgruppen der Siegelschen Modulvarietäten. (English summary) [The fundamental groups of Siegel modular varieties] **89b:32043**
Lee, Ronnie (*with* Weintraub, Steven H.) Topology of the Siegel spaces of degree two and their compactifications. **89c:32071**
— (*with* Weintraub, Steven H.) Moduli spaces of Riemann surfaces of genus two with level structures. I. **89i:32054**
Masser, D. W. Small values of heights on families of abelian varieties. **89g:11048**
Ozeki, Michio Examples of even unimodular extremal lattices of rank 40 and their Siegel theta-series of degree 2. **89f:11061**
Proskurin, N. V. On cubic symplectic metaplectic forms. **89d:11043**
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Weissauer, Rainer Differentialformen zu Untergruppen der Siegelschen Modulgruppe zweiten Grades. [Differential forms attached to subgroups of the Siegel modular group of degree two] **89i:32074**

11F55 Other groups and their modular and automorphic forms (several variables)

Feustel, J. Representation of Picard modular forms by theta constants. **89i:11059**
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Proskurin, N. V. On cubic symplectic metaplectic forms. **89d:11043**
Rubenthaler, Hubert (*with* Schiffmann, Gérard) Opérateurs différentiels de Shimura et espaces préhomogènes. [Shimura differential operators and prehomogeneous spaces] **89e:11030**
Satō, Fumihiro Eisenstein series on the Siegel half space of signature (1, 1). **89f:11075**
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Shiga, Hironori On the representation of the Picard modular function by θ constants. I, II. **89k:11036**
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Carayol, Henri Sur les représentations l-adiques associées aux formes modulaires de Hilbert. [On l-adic representations associated with Hilbert modular forms] **89c:11083**
Flicker, Yuval Z. Twisted tensors and Euler products. (French summary) **89m:11049**
Harris, Joseph Daniel *see* **Moore, Gregory W.; et al., 89c:81087**
Milne, J. S. Automorphic vector bundles on connected Shimura varieties. **89c:11096**
Moore, Gregory W. (*with* Harris, Joseph Daniel; Nelson, Philip C.; Singer, Isadore M.) Errata: "Modular forms and the cosmological constant" [Phys. Lett. B **178** (1986), no. 2-3, 167–173; MR 87m:81170]. **89c:81087**
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Terras, Audrey ★ Harmonic analysis and symmetric spaces and applications. II. **89k:22017**
Tong, Yue Lin Lawrence (*with* Wang, Shu Ping) Construction of cohomology of discrete groups. **89g:32053**
Wang, Shu Ping *see* **Tong, Yue Lin Lawrence, 89g:32053**
Yoshida, Eiji Selberg trace formula for a certain group generated by $PSL(2, \mathbf{Z}[i])$ and a reflection. **89m:11055**

11F66 Dirichlet series and functional equations in connection with modular forms

Arnaud, Bertrand Carré symétrique d'une forme primitive. (English summary) [The symmetric square of a primitive form] **89h:11019**
Duke, W. Fourth moments of L-functions attached to newforms. **89i:11060**
(Epstein, C. L.) *see* **Hafner, James Lee, 89a:11056**
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Harris, Bruno An analytic function and iterated integrals. **89c:11080**
(Sarnak, P.) *see* **Hafner, James Lee, 89a:11056**
Toyoizumi, Masao On certain infinite products. III. **89m:11048**
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Arakawa, Tsuneo Dirichlet series $\sum_{n=1}^{\infty} \cot \pi n\alpha/n^s$, Dedekind sums, and Hecke L-functions for real quadratic fields. **89i:11124**
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Conrey, J. B. (*with* Ghosh, Amit) Simple zeros of the Dirichlet series formed with Ramanujan's tau-function. **89b:11043**
Efrat, Isaac Determinants of Laplacians and a second limit formula in $GL(3)$. **89a:58109**
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Kiritsis, Elias B. Proof of the completeness of the classification of rational conformal theories with $c = 1$. **89k:81150**
Lavrov, P. M. Regularization by means of the generalized zeta-function. (Russian) **89a:81137**
Maknys, M. K. Even moments of Hecke Z-functions. (Russian) **89h:11072**
Meurman, T. On exponential sums involving the Fourier coefficients of Maass wave forms. **89c:11070**
Odoni, R. W. K. An application of the S-unit theorem to modular forms on $\Gamma_0(N)$. **89j:11044**
Shahidi, Freydoon On the Ramanujan conjecture and finiteness of poles for certain L-functions. **89h:11021**
Shimura, Goro On Hilbert modular forms of half-integral weight. **89a:11054**
Styer, Robert Eisenstein series over complex quadratic fields when the class number exceeds one. **89b:11042**
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Yoshida, Hiroyuki On representations of finite groups in the space of Siegel modular forms and theta series. **89j:11053**

11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

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Piatetski-Shapiro, Ilja Iosifovitch (*with* Rallis, Stephen) Rankin triple L functions. **89k:11037**
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Schappacher, Norbert ★ Periods of Hecke characters. **89h:11020**

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Carayol, Henri Sur les représentations l-adiques associées aux formes modulaires de Hilbert. [On l-adic representations associated with Hilbert modular forms] **89c:11083**
Cremona, J. E. Addendum and errata: "Hyperbolic tessellations, modular symbols, and elliptic curves over complex quadratic fields" [Compositio Math. **51** (1984), no. 3, 275–324; MR 85j:11063]. **89a:11058**
Deninger, Ch. (*with* Wingberg, Kay) On the Beĭlinson conjectures for elliptic curves with complex multiplication. **89g:11045**
Drinfel'd, V. G. Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**
Gekeler, Ernst-Ulrich Quasi-periodic functions and Drinfel'd modular forms. **89m:11109**
Harder, G. Eisenstein cohomology of arithmetic groups. The case GL_2. **89b:22018**
Heep, Maria (*with* Weselmann, Uwe) Deligne's conjecture. **89k:11049**
Hida, Haruzo On p-adic Hecke algebras for GL_2. **89d:11039**
— Galois representations and the theory of p-adic Hecke algebras. (Japanese) **89a:11061**
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— Non-Archimedean Rankin L-functions and their functional equations. **89j:11046**
Rosen, Michael Fourier series and special values of Hecke L-functions. **89c:11166**
Schneider, Peter Introduction to the Beĭlinson conjectures. **89g:11053**
— Einladung zur Arbeitsgemeinschaft in Oberwolfach über "Die Beĭlinson-Vermutung". [Invitation to the working session in Oberwolfach on the "Beĭlinson conjecture"] **89j:11061**
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Weselmann, Uwe Eisensteinkohomologie und Dedekindsummen für GL_2 über imaginär-quadratischen Zahlkörpern. [Eisenstein cohomology and Dedekind sums for GL_2 over imaginary quadratic number fields] **89i:11062**
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licker, Yuval Z. Rigidity for automorphic forms. **89a:11057**

— Unramified Whittaker functions on the metaplectic group. **89c:11084**

— Twisted tensors and Euler products. (French summary) **89m:11049**

— (*with* Kazhdan, D.) On the symmetric square: unstable local transfer. **89e:11031**

elbart, Stephen (*with* Piatetski-Shapiro, Ilja Iosifovitch; Rallis, Stephen) ★ Explicit constructions of automorphic L-functions. **89k:11038**

— (*with* Shahidi, Freydoon) ★ Analytic properties of automorphic L-functions. **89f:11077**

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acquet, Hervé Sur un résultat de Waldspurger. II. [On a result of Waldspurger. II] **89c:11085**

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Soudry, David The CAP representations of GSp$(4, \mathbf{A})$. **89e:11032**

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Ahumada, Guido Fonctions périodiques et formule des traces de Selberg sur les arbres. (English summary) [Periodic functions and the Selberg trace formula for trees] **89d:11103**

Andler, Martin Relationships of divisibility between local L-functions associated to representations of complex reductive groups. **89c:11171**

Arthur, James The invariant trace formula. I. Local theory. **89e:22029**

Bump, Daniel (*with* Hoffstein, Jeffrey) On Shimura's correspondence. **89c:11072**

— Barnes' second lemma and its application to Rankin-Selberg convolutions. **89f:11076**

Clozel, Laurent Base change for GL(n). **89i:22034**

Cogdell, J. W. (*with* Piatetski-Shapiro, Ilja Iosifovitch) Base change for $\widetilde{\mathrm{SL}}_2$. **89c:11163**

Drinfel'd, V. G. Moduli varieties of F-sheaves. (Russian) **89b:11092**

— Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**

Flicker, Yuval Z. On the symmetric square: orbital integrals. **89e:22016**

— Stable base change for spherical functions. **89b:11098**

— On endo-lifting. **89k:22033**

Gordon, B. Brent Algebraically defined subspaces in the cohomology of a Kuga fiber variety. **89b:11048**

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Keys, C. David (*with* Shahidi, Freydoon) Artin L-functions and normalization of intertwining operators. **89k:22034**

Langlands, R. P. (*with* Shelstad, D.) On the definition of transfer factors. **89c:11172**

Li, Wen-Ch'ing Winnie Various aspects of the Barnes' identity. **89i:11112**

Mœglin, C. (*with* Waldspurger, Jean-Loup) Modèles de Whittaker dégénérés pour des groupes p-adiques. [Degenerate Whittaker models for p-adic groups] **89f:22024**

Odoni, R. W. K. An application of the S-unit theorem to modular forms on $\Gamma_0(N)$. **89j:11044**

Patterson, S. J. Metaplectic forms and Gauss sums. I. **89f:11070**

Piatetski-Shapiro, Ilja Iosifovitch (*with* Rallis, Stephen) Rankin triple L functions. **89k:11037**

— (*with* Soudry, David) On a correspondence of automorphic forms on orthogonal groups of order five. **89e:22030**

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Proskurin, N. V. The group $G_2(\mathbf{C})$ in connection with the theory of metaplectic forms. (Russian) **89i:22021**

Rallis, Stephen (*with* Soudry, David) Analytic continuation of Archimedean Whittaker integrals. **89k:22026**

— *see also* **Piatetski-Shapiro, Ilja Iosifovitch, 89k:11037**

Rapoport, M. On the local zeta function of quaternionic Shimura varieties with bad reduction. **89c:11097**

Schneider, Peter Einladung zur Arbeitsgemeinschaft in Oberwolfach über "Die Beĭlinson-Vermutung". [Invitation to the working session in Oberwolfach on the "Beĭlinson conjecture"] **89j:11061**

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Snaith, Victor A construction of the Deligne-Langlands local root numbers of orthogonal Galois representations. **89k:11119**

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Waldspurger, Jean-Loup Représentation métaplectique et conjectures de Howe. [The metaplectic representation and Howe's conjectures] **89g:11039**

— *see also* **Mœglin, C., 89f:22024**

Yoshida, Hiroyuki On representations of finite groups in the space of Siegel modular forms and theta series. **89j:11053**

Zucker, Steven M. L_2-cohomology and intersection homology of locally symmetric varieties. II. **89i:32073**

11F72 Spectral theory; Selberg trace formula

Brooks, Robert On the angles between certain arithmetically defined subspaces of $\mathbf{C}^n$. (French summary) **89h:11022**

Cartier, Pierre (*with* Voros, A.) Nouvelle interprétation de la formule des traces de Selberg. [A new interpretation of the Selberg trace formula] (*see* **89g:35002**)

— (*with* Voros, A.) Une nouvelle interprétation de la formule des traces de Selberg. (English summary) [A new form of Selberg's trace formula for hyperbolic Riemann surfaces] **89m:11050**

Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Séries de Poincaré, sommes de Kloosterman et valeurs propres du laplacien pour les groupes de congruence agissant sur un espace hyperbolique. (French summary) [Poincaré series, Kloosterman sums and eigenvalues of the Laplacian for congruence groups acting on hyperbolic spaces] **89c:11086**

Flicker, Yuval Z. Regular trace formula and base change lifting. **89m:11051**

Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89c:11086**

Iwaniec, H. Spectral theory of automorphic functions and recent developments in analytic number theory. **89k:11040**

Kurokawa, Nobushige Parabolic components of zeta functions. **89m:11052**

Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89c:11086**

Pei, Ding Yi Eigenvalues of certain differential operators related to automorphic forms. **89c:11087**

Voros, A. *see* **Cartier, Pierre, 89m:11050** *and* (**89g:35002**)

Wallace, D. I. Maximal parabolic terms in the Selberg trace formula for $\mathrm{SL}(3, \mathbf{Z})\backslash\mathrm{SL}(3, \mathbf{R})/\mathrm{SO}(3, \mathbf{R})$. **89m:11053**

Warner, Garth Application of the Selberg trace formula to the Riemann-Roch theorem. **89c:11088**

Yoshida, Eiji On an application of Zagier's method in the theory of Selberg's trace formula. **89m:11054**

— Selberg trace formula for a certain group generated by PSL$(2, \mathbf{Z}[i])$ and a reflection. **89m:11055**

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Adams, Jeffrey (*with* Johnson, Joseph F.) Endoscopic groups and packets of nontempered representations. **89h:22022**

Agmon, Shmuel On the spectral theory of the Laplacian on noncompact hyperbolic manifolds. **89c:58128**

Ahumada, Guido Fonctions périodiques et formule des traces de Selberg sur les arbres. (English summary) [Periodic functions and the Selberg trace formula for trees] **89d:11103**

Arthur, James The invariant trace formula. I. Local theory. **89e:22029**

— The invariant trace formula. II. Global theory. **89j:22039**

Brooks, Robert Constructing isospectral manifolds. **89k:58285**

Davies, E. B. (*with* Simon, Barry; Taylor, Michael E.) L^p spectral theory of Kleinian groups. **89m:58205**

De Bièvre, S. (*with* Hislop, Peter D.) Spectral resonances for the Laplace-Beltrami operator. (French summary) **89m:58206**

Efrat, Isaac Eisenstein series and Cartan groups. **89a:11053**

Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Arithmetic applications of the hyperbolic lattice point theorem. **89g:11033**

— *see also* **Grunewald, Fritz J.; et al., 89c:22018**

Forman, Robin Functional determinants and geometry. **89b:58212**

Fujii, Akio Arithmetic of some zeta function connected with the eigenvalues of the Laplace-Beltrami operator. **89m:11083**

Grenier, Douglas Fundamental domains for the general linear group. **89d:11055**

Grunewald, Fritz J. (*with* Elstrodt, Jürgen; Mennicke, Jens L.) Some remarks on discrete subgroups of $\mathrm{SL}_2(\mathbf{C})$. (Russian) **89c:22018**

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Guseĭnov, G. Sh. On the spectral theory of the Laplace-Beltrami operator in an n-dimensional Lobachevskiĭ space. (Russian) **89d:58127**

Hislop, Peter D. *see* **De Bièvre, S., 89m:58206**

Jacquet, Hervé Sur un résultat de Waldspurger. II. [On a result of Waldspurger. II] **89c:11085**

Johnson, Joseph F. *see* **Adams, Jeffrey, 89h:22022**

Langlands, R. P. (*with* Shelstad, D.) On the definition of transfer factors. **89c:11172**

Lavrov, P. M. Regularization by means of the generalized zeta-function. (Russian) **89a:81137**

Mandouvalos, N. Spectral theory and Eisenstein series for Kleinian groups. **89h:58201**

Mazzeo, Rafe (*with* Melrose, Richard B.) Meromorphic extension of the resolvent on complete spaces with asymptotically constant negative curvature. **89c:58133**

Melrose, Richard B. *see* **Mazzeo, Rafe, 89c:58133**

Mennicke, Jens L. *see* **Grunewald, Fritz J.; et al., 89c:22018** *and* **Elstrodt, Jürgen; et al., 89g:11033**

Niwa, Shinji The inner product of an automorphic wave form with the pullback of an Eisenstein series. **89c:11064**

Phillips, Ralph S. Scattering theory for the wave equation on a hyperbolic manifold. **89b:58223**

— (*with* Wiskott, Bettina; Woo, Alex) Scattering theory for the wave equation on a hyperbolic manifold. **89a:58115**

Ringseth, Paul F. The Selberg trace formula for groups without Eisenstein series. **89j:22021**

Sarnak, P. Determinants of Laplacians on surfaces. **89c:58134**

Shelstad, D. *see* **Langlands, R. P., 89c:11172**

Simon, Barry *see* **Davies, E. B.; et al., 89m:58205**

Skoruppa, Nils-Peter (*with* Zagier, Don) Jacobi forms and a certain space of modular forms. **89k:11029**

Sunada, Toshikazu Fundamental group and Laplacians. (Japanese) **89d:58128**

— Fundamental groups and Laplacians. **89i:58151**

Taylor, Michael E. *see* **Davies, E. B.; et al., 89m:58205**

Uehara, Shozo (*with* Yasui, Yukinori) Super-Selberg trace formula from the chaotic model. **89m:81118**

— (*with* Yasui, Yukinori) A superparticle on the "super" Poincaré upper half plane.

89g:81031
Weisberger, William I. Conformal invariants for determinants of Laplacians on Riemann surfaces. **89c:58135**
Winkler, Andrew M. Dirichlet and Neumann spectrum. **89k:58292**
Wiskott, Bettina *see* **Phillips, Ralph S.; et al., 89a:58115**
Wolpert, Scott A. Asymptotics of the Selberg zeta function and the Polyakov bosonic integrand. (*see* **89m:81001**)
— Asymptotics of the spectrum and the Selberg zeta function on the space of Riemann surfaces. **89c:58136**
Woo, Alex *see* **Phillips, Ralph S.; et al., 89a:58115**
Yasui, Yukinori *see* **Uehara, Shozo, 89g:81031** *and* **89m:81118**
Zagier, Don *see* **Skoruppa, Nils-Peter, 89k:11029**
Zelditch, Steven A Szegő limit formula for conjugates of ψDOs by Hecke operators. **89g:58213**

11F75 Cohomology of arithmetic groups

Ash, Avner Nonminimal modular symbols for GL(n). **89c:11089**
Harder, G. Eisensteinkohomologie für Gruppen vom Typ GU(2, 1). [Eisenstein cohomology for groups of type GU(2, 1)] **89c:11090**
Weselmann, Uwe Eisensteinkohomologie und Dedekindsummen für GL$_2$ über imaginär-quadratischen Zahlkörpern. [Eisenstein cohomology and Dedekind sums for GL$_2$ over imaginary quadratic number fields] **89i:11062**

Items with secondary classifications in 11F75

Kudla, Stephen S. (*with* Millson, John J.) The theta correspondence and harmonic forms. II. **89b:11041**
Lee, Ronnie (*with* Weintraub, Steven H.) Moduli spaces of Riemann surfaces of genus two with level structures. I. **89i:32054**
Lehrer, G. I. A survey of Hecke algebras and the Artin braid groups. **89m:20043**
Millson, John J. *see* **Kudla, Stephen S., 89b:11041**
Silverberg, Alice Cohomology of fiber systems and Mordell-Weil groups of abelian varieties. **89c:11098**
Stuhler, Ulrich Zur Frobeniusoperation auf der Homologie einiger arithmetischer Gruppen. [On the Frobenius action on the homology of certain arithmetic groups] **89k:20066**
Weintraub, Steven H. *see* **Lee, Ronnie, 89i:32054**

11F80 Galois properties

Ihara, Yasutaka Some problems on three-point ramifications and associated large Galois representations. **89f:11078**

Items with secondary classifications in 11F80

Efrat, Isaac On a family of Hilbert modular Maass forms. **89e:11029**
Moroz, B. Z. Equidistribution of Frobenius classes and the volumes of tubes. **89m:11092**
Tilouine, Jacques Théorie d'Iwasawa classique et de l'algèbre de Hecke ordinaire. [Classical Iwasawa theory and ordinary Hecke algebras] **89f:11152**
Wiles, A. On ordinary λ-adic representations associated to modular forms. **89j:11051**

11F85 *p*-adic theory, local fields [see also 14G20, 22E50]

Faltings, Gerd Hodge-Tate structures and modular forms. **89e:11033**
Gekeler, Ernst-Ulrich On the coefficients of Drinfel′d modular forms. **89g:11043**
Panchishkin, A. A. A functional equation of the non-Archimedian Rankin convolution. **89d:11044**

Items with secondary classifications in 11F85

Bollaerts, Dirk On the Poincaré series associated to the p-adic points on a curve. **89i:11130**
Furukawa, Yoshihiro On the ramified congruence relations of algebraic curves. **89d:14021**
Hida, Haruzo On p-adic Hecke algebras for GL$_2$. **89d:11039**
— Modules of congruence of Hecke algebras and L-functions associated with cusp forms. **89i:11058**
— A p-adic measure attached to the zeta functions associated with two elliptic modular forms. II. **89k:11120**
— On p-adic Hecke algebras for GL$_2$ over totally real fields. **89m:11046**
Iwaniec, H. On Waldspurger's theorem. **89m:11044**
Li, Wen-Ch'ing Winnie Various aspects of the Barnes' identity. **89i:11112**
van der Marel, B. On the Tate-matrix. **89h:14034**
Panchishkin, A. A. Convolutions of Hilbert modular forms and their non-Archimedean analogues. (Russian) **89k:11033**
Perrin-Riou, Bernadette Fonctions L p-adiques associées à une forme modulaire et à un corps quadratique imaginaire. [p-adic L-functions associated to a modular form and an imaginary quadratic field] **89m:11043**
Tilouine, Jacques Théorie d'Iwasawa classique et de l'algèbre de Hecke ordinaire. [Classical Iwasawa theory and ordinary Hecke algebras] **89f:11152**
Venkataramana, T. N. On superrigidity and arithmeticity of lattices in semisimple groups over local fields of arbitrary characteristic. **89c:20073**

11F99 None of the above, but in this section

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Bump, Daniel Barnes' second lemma and its application to Rankin-Selberg convolutions. **89f:11076**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Approximations and complex multiplication according to Ramanujan. **89f:11099**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89f:11099**
Gillard, Roland Relations monomiales entre périodes p-adiques. [Monomial relations between p-adic periods] **89m:11058**
Kapranov, M. M. Cuspidal divisors on the modular varieties of elliptic modules. **89c:11095**
Kato, Akishi Classification of modular invariant partition functions in two dimensions. **89d:81101**
Kubo, Reijiro Geometry, heat equation and path integrals on the Poincaré upper half-plane. **89m:81057**
Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.; Warner, N. P.) Anomaly cancelling terms from the elliptic genus. **89g:81082**
Neveu, A. (*with* West, Peter) Cycling, twisting, and sewing in the group theoretic approach to strings. **89j:81208**
Nilsson, B. E. W. *see* **Lerche, W.; et al., 89g:81082**
Pei, Ding Yi Eigenvalues of certain differential operators related to automorphic forms. **89c:11087**
Schellekens, A. N. *see* **Lerche, W.; et al., 89g:81082**
Warner, N. P. *see* **Lerche, W.; et al., 89g:81082**
West, Peter *see* **Neveu, A., 89j:81208**
Yoshida, Masaaki The Schwarz program. (Japanese) **89m:34009**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

Faltings, Gerd Neuere Entwicklungen in der arithmetischen algebraischen Geometrie. [Recent developments in arithmetic algebraic geometry] **89d:11045**

Items with secondary classifications in 11Gxx

(Cornell, Gary) *see* **Arithmetic geometry, 89b:14029**
(Silverman, Joseph H.) *see* **Arithmetic geometry, 89b:14029**

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Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Conference:
  Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Storrs, Conn. ★ Arithmetic geometry. **89b:14029**

11G05 Elliptic curves over global fields

Bertolini, Massimo (*with* Canuto, Giuseppe) Good reduction of elliptic curves defined over $\mathbf{Q}(\sqrt[3]{2})$. **89d:11046**
Brown, Martin Lawrence Note on supersingular primes of elliptic curves over **Q**. **89f:11079**
— A note on orders of isogenies of elliptic curves. **89g:11044**
Canuto, Giuseppe *see* **Bertolini, Massimo, 89d:11046**
Coleman, Robert F. (*with* de Shalit, Ehud) p-adic regulators on curves and special values of p-adic L-functions. **89k:11041**
Cremona, J. E. Addendum and errata: "Hyperbolic tessellations, modular symbols, and elliptic curves over complex quadratic fields" [Compositio Math. **51** (1984), no. 3, 275–324; MR 85j:11063]. **89a:11058**
Dem′yanenko, V. A. The number of divisor classes of elliptic fields. (Russian) **89k:11042**
Deninger, Ch. (*with* Wingberg, Kay) On the Beĭlinson conjectures for elliptic curves with complex multiplication. **89g:11045**
Frey, Gerhard On the Selmer group of twists of elliptic curves with **Q**-rational torsion points. **89k:11043**
Hindry, Marc (*with* Silverman, Joseph H.) The canonical height and integral points on elliptic curves. **89k:11044**
Ishii, Hidenori The nonexistence of elliptic curves with everywhere good reduction over certain quadratic fields. **89j:11054**
Kenku, M. A. (*with* Momose, F.) Torsion points on elliptic curves defined over quadratic fields. **89c:11091**
Koblitz, Neal I. ★ Введение в эллиптические кривые и модулярные формы. (Russian) [Introduction to elliptic curves and modular forms] **89d:11047**
— Primality of the number of points on an elliptic curve over a finite field. **89h:11023**
Kolyvagin, V. A. Finiteness of $E(\mathbf{Q})$ and $\text{Ш}(E, \mathbf{Q})$ for a subclass of Weil curves. **89m:11056**
Lehman, J. Larry Rational points on elliptic curves with complex multiplication by the ring of integers in $\mathbf{Q}(\sqrt{-7})$. **89a:11059**
(Manin, Yu. I.) *see* **Koblitz, Neal I., 89d:11047**
Miyamoto, I. (*with* Murty, Maruti Ram) Elliptic pseudoprimes. **89j:11055**
Momose, F. *see* **Kenku, M. A., 89c:11091**
Murty, Maruti Ram *see* **Miyamoto, I., 89j:11055**
(Ogievetskiĭ, O. V.) *see* **Koblitz, Neal I., 89d:11047**
Ramaroson, François A note on the arithmetic of an elliptic curve over $\mathbf{Z}_p$-extensions. **89d:11048**
de Shalit, Ehud ★ Iwasawa theory of elliptic curves with complex multiplication. **89g:11046**
— *see also* **Coleman, Robert F., 89k:11041**
Silverman, Joseph H. Heights and elliptic curves. (*see* **89b:14029**)
— A quantitative version of Siegel's theorem: integral points on elliptic curves and Catalan curves. **89g:11047**
— Computing heights on elliptic curves. **89d:11049**
— Elliptic curves of bounded degree and height. **89i:11063**
— *see also* **Hindry, Marc, 89k:11044**
Stevens, Glenn On the periods of modular elliptic curves. **89i:11064**
— Modular elliptic curves and values of L-functions. **89m:11057**
Touibi, C. Groupe de Brauer d'une courbe de Tate. [The Brauer group of a Tate curve] **89k:11045**
Wingberg, Kay *see* **Deninger, Ch., 89g:11045**
Zagier, Don Addendum to: "Large integral points on elliptic curves" [Math. Comp. **48** (1987), no. 177, 425–436; MR 87k:11062]. **89c:11092**
Zimmer, Horst Günter ★ Zur Arithmetik der elliptischen Kurven. (German) [On the arithmetic of elliptic curves] **89h:11024**

Items with secondary classifications in 11G05

Bost, J.-B. (*with* Mestre, Jean-François) Moyenne arithmético-géométrique et périodes des courbes de genre 1 et 2. [Arithmetic-geometric mean and periods of curves of genus 1 and

2] **89k:14072**
Cassou-Noguès, Ph. (*with* Taylor, M. J.) A note on elliptic curves and the monogeneity of rings of integers. **89c:11158**
Dem'yanenko, V. A. Sharp estimates for the torsion of curves of genus one. (Russian) **89a:14054**
Dorman, David R. Special values of the elliptic modular function and factorization formulae. **89k:11026**
Gekeler, Ernst-Ulrich Quasi-periodic functions and Drinfel'd modular forms. **89m:11109**
Gordon, Daniel M. On the number of elliptic pseudoprimes. **89f:11169**
Gross, Benedict H. Heights and L-series. **89d:11052**
— (*with* Kohnen, Winfried; Zagier, Don) Heegner points and derivatives of L-series. II. **89i:11069**
Horie, Kuniaki *see* **Nakagawa, Jin, 89k:11113**
Kohnen, Winfried *see* **Gross, Benedict H.; et al., 89i:11069**
Livné, Ron The average distribution of cubic exponential sums. **89f:11116**
Mestre, Jean-François Courbes hyperelliptiques à multiplications réelles. (English summary) [Hyperelliptic curves with real multiplication] **89k:11106**
— *see also* **Bost, J.-B., 89k:14072**
Nakagawa, Jin (*with* Horie, Kuniaki) Elliptic curves with no rational points. **89k:11113**
Peng, T. A. The right-angled triangle. **89h:11010**
Pinch, R. G. E. Simultaneous Pellian equations. **89a:11029**
Rohrlich, David E. Elliptic curves and values of L-functions. **89b:11054**
Rubin, Karl p-adic L-functions and descent on non-CM elliptic curves. **89f:11086**
— Tate-Shafarevich groups and L-functions of elliptic curves with complex multiplication. **89a:11065**
— Local units, elliptic units, Heegner points and elliptic curves. **89h:11069**
Silverman, Joseph H. Wieferich's criterion and the *abc*-conjecture. **89m:11027**
Taylor, M. J. Mordell-Weil groups and the Galois module structure of rings of integers. **89j:11113**
— *see also* **Cassou-Noguès, Ph., 89c:11158**
Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**
Zagier, Don *see* **Gross, Benedict H.; et al., 89i:11069**

11G07 Elliptic curves over local fields

Souto Menéndez, José M. On a theorem due to Cassels. **89j:11056**

Items with secondary classifications in 11G07

van der Marel, B. On the Tate-matrix. **89h:14034**
Soulé, C. p-adic K-theory of elliptic curves. **89c:14023**
Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**
Zimmermann, Karl Frederic Galois endomorphisms of the torsion subgroup of one-parameter generic formal groups. **89b:14063**

11G10 Abelian varieties of dimension >1

Artin, M. Néron models. (*see* **89b:14029**)
Bosch, S. Néron models. **89a:11060**
David, Sinnou Fonctions thêta et points de torsion des variétés abéliennes. (English summary) [Theta functions and torsion points of abelian varieties] **89b:11047**
Faltings, Gerd Finiteness theorems for abelian varieties over number fields. (*see* **89b:14029**)
Hindry, Marc Autour d'une conjecture de Serge Lang. [On a conjecture of Serge Lang] **89k:11046**
Masser, D. W. Small values of heights on families of abelian varieties. **89g:11048**
Parish, James L. A family of abelian varieties rationally isogenous to no Jacobian. **89k:11047**
Serre, Jean-Pierre Algèbre et géométrie. [Algebra and geometry] **89j:11057**
(Shipz, Edward) *see* **Faltings, Gerd,** (**89b:14029**)
Silverberg, Alice Torsion points on abelian varieties of CM-type. **89i:11065**
Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**

Items with secondary classifications in 11G10

Abrashkin, V. A. Galois modules of group schemes of period p over the ring of Witt vectors. **89a:14062**
van der Geer, Gerard Note on abelian schemes of level three. **89a:14053**
— ★ Hilbert modular surfaces. **89c:11073**
Hazama, Fumio Geometric analogue of the Mumford-Tate conjecture for stably nondegenerate abelian varieties (a note on Mustafin's paper). **89i:14037**
Ichikawa, Takashi On algebraic groups of Mumford-Tate type. **89f:14050**
Kuhn, Robert M. Curves of genus 2 with split Jacobian. **89f:14027**
Milne, J. S. Abelian varieties. (*see* **89b:14029**)
Murty, V. Kumar The Hodge group of an abelian variety. **89k:14073**
Oort, Frans Lifting algebraic curves, abelian varieties, and their endomorphisms to characteristic zero. **89c:14069**
— (*with* van der Put, Marius) A construction of an abelian variety with a given endomorphism algebra. **89j:14025**
van der Put, Marius *see* **Oort, Frans, 89j:14025**
Silverberg, Alice Mordell-Weil groups of generic abelian varieties in the unitary case. **89f:14048**
Silverman, Joseph H. Integral points on abelian surfaces are widely spaced. **89c:14070**
Tankeev, S. G. Cycles on simple abelian varieties of prime dimension over number fields. **89k:14039**
Taylor, M. J. Mordell-Weil groups and the Galois module structure of rings of integers. **89j:11113**

11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

Dodson, B. On the Mumford-Tate group of an abelian variety with complex multiplication. **89e:11034**
Gillard, Roland Relations monomiales entre périodes p-adiques. [Monomial relations between p-adic periods] **89m:11058**
Reimann, Harry (*with* Zink, Thomas) Der Dieudonnémodul einer polarisierten abelschen Mannigfaltigkeit vom CM-Typ. [The Dieudonné module of a polarized abelian variety of CM-type] **89i:11066**
Zink, Thomas *see* **Reimann, Harry, 89i:11066**

Items with secondary classifications in 11G15

Beukers, F. (*with* Wolfart, Jürgen) Algebraic values of hypergeometric functions. **89m:11071**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Approximations and complex multiplication according to Ramanujan. **89f:11099**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89f:11099**
Coleman, Robert F. (*with* de Shalit, Ehud) p-adic regulators on curves and special values of p-adic L-functions. **89k:11041**
Drinfel'd, V. G. Moduli varieties of F-sheaves. (Russian) **89b:11092**
Faltings, Gerd Arithmetic theory of Siegel modular forms. **89d:11042**
van der Geer, Gerard ★ Hilbert modular surfaces. **89c:11073**
Hayashi, Heima Note on an index formula of elliptic units in a ring class field. II. **89j:11058**
Ichikawa, Takashi On algebraic groups of Mumford-Tate type. **89f:14050**
Murty, V. Kumar The Hodge group of an abelian variety. **89k:14073**
Ramaroson, François Some remarks on the generation of subfields of ring class fields. **89i:11123**
Rubin, Karl Tate-Shafarevich groups and L-functions of elliptic curves with complex multiplication. **89a:11065**
Schappacher, Norbert ★ Periods of Hecke characters. **89h:11020**
de Shalit, Ehud ★ Iwasawa theory of elliptic curves with complex multiplication. **89g:11046**
— *see also* **Coleman, Robert F., 89k:11041**
Silverberg, Alice Torsion points on abelian varieties of CM-type. **89i:11065**
— Mordell-Weil groups of generic abelian varieties in the unitary case. **89f:14048**
Wolfart, Jürgen *see* **Beukers, F., 89m:11071**

11G16 Elliptic and modular units

Hayashi, Heima Note on an index formula of elliptic units in a ring class field. II. **89j:11058**
Hida, Haruzo Galois representations and the theory of p-adic Hecke algebras. (Japanese) **89a:11061**
Rubin, Karl Global units and ideal class groups. **89e:11035**

Items with secondary classifications in 11G16

Rubin, Karl Local units, elliptic units, Heegner points and elliptic curves. **89h:11069**
de Shalit, Ehud ★ Iwasawa theory of elliptic curves with complex multiplication. **89g:11046**
Thaine, Francisco On the ideal class groups of real abelian number fields. **89m:11099**

11G18 Arithmetic of modular and Shimura varieties

Abdulali, Salman Zeta functions of Kuga fiber varieties. **89k:11048**
Borovoi, M. V. Conjugation of Shimura varieties. **89h:11025**
Gekeler, Ernst-Ulrich Satake compactification of Drinfel'd modular schemes. **89f:11080**
Gordon, B. Brent Topological and algebraic cycles in Kuga-Shimura varieties. **89j:11059**
— Algebraically defined subspaces in the cohomology of a Kuga fiber variety. **89b:11048**
Jordan, Bruce W. (*with* Livné, Ron) Divisor classes on Shimura curves rational over local fields. **89c:11094**
Kapranov, M. M. Cuspidal divisors on the modular varieties of elliptic modules. **89c:11095**
Koehl, Jürgen ★ Algebraische Zykel auf Hilbertschen Modulflächen. (German) [Algebraic cycles on Hilbert modular surfaces] **89a:11062**
Livné, Ron *see* **Jordan, Bruce W., 89c:11094**
Milne, J. S. Automorphic vector bundles on connected Shimura varieties. **89c:11096**
Ogg, A. P. Mauvaise réduction des courbes de Shimura. [Bad reduction of Shimura curves] **89b:11049**
Rapoport, M. On the local zeta function of quaternionic Shimura varieties with bad reduction. **89c:11097**
Silverberg, Alice Cohomology of fiber systems and Mordell-Weil groups of abelian varieties. **89c:11098**

Items with secondary classifications in 11G18

Baily, Walter L., Jr. Reciprocity laws for special values of Hilbert modular functions. **89j:11049**
Drinfel'd, V. G. Moduli varieties of F-sheaves. (Russian) **89b:11092**
Faltings, Gerd Arithmetic theory of Siegel modular forms. **89d:11042**
Gillard, Roland Relations monomiales entre périodes p-adiques. [Monomial relations between p-adic periods] **89m:11058**
Karel, Martin L. Special values of Hilbert modular functions. **89d:11041**
Koike, Masao (*with* Tanigawa, Yoshio) A_4-extensions over real quadratic fields and Hecke operators. **89j:11045**
Lee, Ronnie (*with* Weintraub, Steven H.) Moduli spaces of Riemann surfaces of genus two with level structures. I. **89i:32054**
Masser, D. W. Small values of heights on families of abelian varieties. **89g:11048**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) Period relations and the Tate conjecture for Hilbert modular surfaces. **89a:11064**
Paranjape, Kapil Abelian varieties associated to certain $K3$ surfaces. **89k:14068**
Ramakrishnan, Dinakar Arithmetic of Hilbert-Blumenthal surfaces. **89f:11073**
— *see also* **Murty, V. Kumar, 89a:11064**
Reimann, Harry (*with* Zink, Thomas) Der Dieudonnémodul einer polarisierten abelschen Mannigfaltigkeit vom CM-Typ. [The Dieudonné module of a polarized abelian variety of CM-type] **89i:11066**

Schappacher, Norbert (*with* Scholl, Anthony J.) Beĭlinson's theorem on modular curves. **89h:11029**
Scholl, Anthony J. *see* **Schappacher, Norbert, 89h:11029**
Tanigawa, Yoshio *see* **Koike, Masao, 89j:11045**
Weintraub, Steven H. *see* **Lee, Ronnie, 89i:32054**
Zink, Thomas *see* **Reimann, Harry, 89i:11066**
Zucker, Steven M. L_2-cohomology and intersection homology of locally symmetric varieties. II. **89i:32073**

11G20 Curves over finite and local fields

Coleman, Robert F. On the Frobenius endomorphisms of Fermat and Artin-Schreier curves. **89c:11099**
Crew, Richard L-functions of p-adic characters and geometric Iwasawa theory. **89g:11049**
Deligne, P. (*with* Husemoller, Dale) Survey of Drinfel'd modules. **89f:11081**
Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps de séries formelles en une variable sur un corps algébriquement clos. [The Tate-Poitou theorem for the function fields of curves defined over fields of formal power series in one variable over an algebraically closed field] **89c:11100**
Drinfel'd, V. G. Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**
Husemoller, Dale *see* **Deligne, P., 89f:11081**
Koseki, Harutaka On the common kernel of certain symmetric tensor representations. **89j:11060**
Matignon, Michel Genre et genre résiduel des corps de fonctions valués. (English summary) [Genus and residue genus of function fields with valuation] **89a:11063**
Soublin, Jean-Pierre ★ Nombre de points d'une courbe sur un corps fini. (French) [The number of points on a curve over a finite field] **89c:11101**

Items with secondary classifications in 11G20

Adolphson, Alan (*with* Sperber, Steven) Twisted Kloosterman sums and p-adic Bessel functions. II. Newton polygons and analytic continuation. **89b:11101**
Anderson, Greg W. The hyperadelic gamma function: a précis. **89m:11115**
— (*with* Ihara, Yasutaka) Pro-l branched coverings of $\mathbf{P}^1$ and higher circular l-units. **89f:14023**
— The hyperadelic gamma function. **89j:11118**
Asada, Mamoru On the action of the Frobenius automorphism on the pro-l fundamental group. **89k:14019**
Bollaerts, Dirk On the Poincaré series associated to the p-adic points on a curve. **89i:11130**
Ditters, E. J. (*with* Hoving, Simen) Sur la composante connexe du module de Tate covariant de la famille des courbes, donnée par l'équation $y^2 = 1 + \mu x^N$. (English summary) [On the connected component of the covariant Tate module of the family of curves given by the equation $y^2 = 1 + \mu x^N$] **89d:14059**
Furukawa, Yoshihiro On the ramified congruence relations of algebraic curves. **89d:14021**
Gekeler, Ernst-Ulrich On the coefficients of Drinfel'd modular forms. **89g:11043**
Hellegouarch, Yves Notions de base pour l'arithmétique de $\mathbf{F}_q((1/t))$. [Basic notions for the arithmetic of $\mathbf{F}_q((1/t))$] **89m:11110**
Hoving, Simen *see* **Ditters, E. J., 89d:14059**
Ihara, Yasutaka Some problems on three-point ramifications and associated large Galois representations. **89f:11078**
— *see also* **Anderson, Greg W., 89f:14023**
Jordan, Bruce W. (*with* Livné, Ron) Divisor classes on Shimura curves rational over local fields. **89c:11094**
Litsyn, S. N. *see* **Zinov'ev, V. A., 89i:11136**
Livné, Ron *see* **Jordan, Bruce W., 89c:11094**
Sperber, Steven *see* **Adolphson, Alan, 89b:11101**
Stiller, Peter F. On the classification of elliptic surfaces with $q = 1$. **89c:14057**
Teitelbaum, Jeremy p-adic periods of genus two Mumford-Schottky curves. **89b:14043**
Zinov'ev, V. A. (*with* Litsyn, S. N.) Lower bounds on complete rational trigonometric sums. **89i:11136**

11G25 Varieties over finite and local fields

Shioda, Tetsuji Some observations on Jacobi sums. **89i:11067**
Yui, Noriko Erratum: "The arithmetic of the product of two algebraic curves over a finite field" [J. Algebra 98 (1986), no. 1, 102–142; MR 87f:11042]. **89c:11102**

Items with secondary classifications in 11G25

Adolphson, Alan (*with* Sperber, Steven) p-adic estimates for exponential sums and the theorem of Chevalley-Warning. **89d:11112**
Carayol, Henri Sur les représentations l-adiques associées aux formes modulaires de Hilbert. [On l-adic representations associated with Hilbert modular forms] **89c:11083**
Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**
Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
(Dieudonné, Jean) *see* **Freitag, Eberhard, 89f:14017**
Faltings, Gerd Hodge-Tate structures and modular forms. **89e:11033**
Freitag, Eberhard (*with* Kiehl, Reinhardt) ★ Étale cohomology and the Weil conjecture. **89f:14017**
Jannsen, Uwe Continuous étale cohomology. **89a:14022**
Kato, Kazuya On p-adic vanishing cycles (application of ideas of Fontaine-Messing). **89i:14014**
— Duality theories for p-primary etale cohomology. II. **89k:14032**
Kiehl, Reinhardt *see* **Freitag, Eberhard, 89f:14017**
Loeser, François Évaluation d'intégrales et théorie de Hodge. [Evaluation of integrals, and Hodge theory] **89a:32008**
Perel'muter, G. I. An estimate for a two-dimensional sum of Legendre symbols. (Russian) (*see* **89a:11006**)
Sperber, Steven *see* **Adolphson, Alan, 89d:11112**
Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**
(Waterhouse, Betty S.) *see* **Freitag, Eberhard, 89f:14017**
(Waterhouse, William C.) *see* **Freitag, Eberhard, 89f:14017**

11G30 Curves of arbitrary genus or genus ≠ 1 over global fields

Bost, J.-B. Fonctions de Green-Arakelov, fonctions thêta et courbes de genre 2. (English summary) [Green-Arakelov functions, theta functions and curves of genus 2] **89b:11051**
Chinburg, T. Minimal models for curves over Dedekind rings. (*see* **89b:14029**)
Coleman, Robert F. Torsion points on curves. **89d:11050**
— (*with* McCallum, William) Stable reduction of Fermat curves and Jacobi sum Hecke characters. **89h:11026**
Gross, Benedict H. Local heights on curves. (*see* **89b:14029**)
— Representation theory and the cuspidal group of $X(p)$. **89b:11052**
Kuribayashi, Izumi (*with* Momose, F.) On the action of automorphisms of a curve on the first l-adic cohomology. **89g:11050**
Lang, Serge ★ Introduction to Arakelov theory. **89m:11059**
McCallum, William *see* **Coleman, Robert F., 89h:11026**
Momose, F. *see* **Kuribayashi, Izumi, 89g:11050**

Items with secondary classifications in 11G30

Coleman, Robert F. Ramified torsion points on curves. **89c:14033**
Kodama, Tetsuo (*with* Washio, Tadashi) Hasse-Witt matrices of Fermat curves. **89b:14042**
Szpiro, Lucien Présentation de la théorie d'Arakélov. [Presentation of Arakelov theory] **89c:14005**
Washio, Tadashi *see* **Kodama, Tetsuo, 89b:14042**

11G35 Varieties over global fields

Chinburg, T. An introduction to Arakelov intersection theory. (*see* **89b:14029**)
Colliot-Thélène, J.-L. Surfaces cubiques diagonales. [Diagonal cubic surfaces] **89i:11068**
— (*with* Kanevsky, Dimitri; Sansuc, Jean-Jacques) Arithmétique des surfaces cubiques diagonales. [Arithmetic of diagonal cubic surfaces] **89g:11051**
— Arithmétique des variétés rationnelles et problèmes birationnels. [Arithmetic of rational varieties and birational problems] **89d:11051**
— (*with* Sansuc, Jean-Jacques) La descente sur les variétés rationnelles. II. [Descent on rational varieties. II] **89f:11082**
Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**
Franke, Jens (*with* Manin, Yu. I.; Tschinkel, Yuri) Rational points of bounded height on Fano varieties. **89m:11060**
Kanevsky, Dimitri *see* **Colliot-Thélène, J.-L.; et al., 89g:11051**
Manin, Yu. I. *see* **Franke, Jens; et al., 89m:11060**
Salberger, Per On the arithmetic of certain intersections of two quadrics. **89m:11061**
Sansuc, Jean-Jacques Principe de Hasse, surfaces cubiques et intersections de deux quadriques. [The Hasse principle, cubic surfaces and intersections of two quadrics] **89f:11084**
— *see also* **Colliot-Thélène, J.-L., 89f:11082** *and* **89g:11051**
Silverman, Joseph H. The theory of height functions. (*see* **89b:14029**)
Tschinkel, Yuri *see* **Franke, Jens; et al., 89m:11060**
Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**
Vojta, Paul A higher-dimensional Mordell conjecture. (*see* **89b:14029**)

Items with secondary classifications in 11G35

Anderson, Greg W. Torsion points on Fermat Jacobians, roots of circular units and relative singular homology. **89g:14012**
Bénéteau, L. Quasigroups and groups arising from cubic surfaces. **89g:20107**
Berkovich, V. G. Duality theorems in Galois cohomology of commutative algebraic groups. **89a:11038**
Bremner, A. On Euler's quartic surface. **89j:11026**
— On diagonal cubic surfaces. **89k:11013**
Elkies, Noam D. On $A^4 + B^4 + C^4 = D^4$. **89h:11012**
Faltings, Gerd Some historical notes. (*see* **89b:14029**)
Kanevsky, Dimitri Application of the conjecture on the Manin obstruction to various Diophantine problems. **89b:11032**
Maehara, Kazuhisa The Mordell-Bombieri-Noguchi conjecture over function fields. **89b:14031**
Salberger, Per Zero-cycles on rational surfaces over number fields. **89c:14010**
Stienstra, Jan Formal group laws arising from algebraic varieties. **89d:14060**

11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture

Bayer, Pilar Right triangles with rational sides. (Catalan) **89f:11085**
Beĭlinson, A. A. Height pairing between algebraic cycles. **89g:11052**
— Height pairing between algebraic cycles. **89h:11027**
Bloch, Spencer de Rham cohomology and conductors of curves. **89h:11028**
Gerzhoĭ, P. I. (*with* Panchishkin, A. A.) A finiteness criterion for the number of rational points for twisted Weil elliptic curves. (Russian) **89b:11053**
Gross, Benedict H. Heights and L-series. **89d:11052**
— (*with* Kohnen, Winfried; Zagier, Don) Heegner points and derivatives of L-series. II. **89i:11069**
Heep, Maria (*with* Weselmann, Uwe) Deligne's conjecture. **89k:11049**
Kohnen, Winfried *see* **Gross, Benedict H.; et al., 89i:11069**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) Period relations and the Tate conjecture for Hilbert modular surfaces. **89a:11064**
Panchishkin, A. A. *see* **Gerzhoĭ, P. I., 89b:11053**
Ramakrishnan, Dinakar *see* **Murty, V. Kumar, 89a:11064**
Rohrlich, David E. Elliptic curves and values of L-functions. **89b:11054**
Rubin, Karl p-adic L-functions and descent on non-CM elliptic curves. **89f:11086**
— Tate-Shafarevich groups and L-functions of elliptic curves with complex multiplication. **89a:11065**

chappacher, Norbert (*with* Scholl, Anthony J.) Beĭlinson's theorem on modular curves. **89h:11029**
chneider, Peter Introduction to the Beĭlinson conjectures. **89g:11053**
– Einladung zur Arbeitsgemeinschaft in Oberwolfach über "Die Beĭlinson-Vermutung". [Invitation to the working session in Oberwolfach on the "Beĭlinson conjecture"] **89j:11061**
choll, Anthony J. *see* **Schappacher, Norbert, 89h:11029**
Veselmann, Uwe *see* **Heep, Maria, 89k:11049**
Zagier, Don L-series and the Green's functions of modular curves. **89c:11103**
– *see also* **Gross, Benedict H.; et al., 89i:11069**

Items with secondary classifications in 11G40

Abdulali, Salman Zeta functions of Kuga fiber varieties. **89k:11048**
Berkovich, V. G. Duality theorems in Galois cohomology of commutative algebraic groups. **89a:11038**
Coombes, Kevin R. On the K-theory of curves over finite fields. **89d:14010**
Crew, Richard L functions of p-adic characters and geometric Iwasawa theory. **89g:11049**
Deninger, Ch. (*with* Wingberg, Kay) On the Beĭlinson conjectures for elliptic curves with complex multiplication. **89g:11045**
Elkies, Noam D. On $A^4 + B^4 + C^4 = D^4$. **89h:11012**
Gross, Benedict H. Heights and the special values of L-series. **89c:11082**
— On the values of abelian L-functions at $s = 0$. **89h:11071**
Koblitz, Neal I. ★ Введение в эллиптические кривые и модулярные формы. (Russian) [Introduction to elliptic curves and modular forms] **89d:11047**
Kolyvagin, V. A. Finiteness of $E(\mathbf{Q})$ and $\text{Ш}(E, \mathbf{Q})$ for a subclass of Weil curves. **89m:11056**
Lehman, J. Larry Rational points on elliptic curves with complex multiplication by the ring of integers in $\mathbf{Q}(\sqrt{-7})$. **89a:11059**
(Manin, Yu. I.) *see* **Koblitz, Neal I., 89d:11047**
Milne, J. S. Motivic cohomology and values of zeta functions. **89k:14038**
(Ogievetskiĭ, O. V.) *see* **Koblitz, Neal I., 89d:11047**
Peng, T. A. The right-angled triangle. **89h:11010**
Perrin-Riou, Bernadette Fonctions L p-adiques, théorie d'Iwasawa et points de Heegner. (English summary) [p-adic L-functions, Iwasawa theory and Heegner points] **89d:11094**
— Points de Heegner et dérivées de fonctions L p-adiques. [Heegner points and derivatives of p-adic L-functions] **89d:11034**
Rubin, Karl Local units, elliptic units, Heegner points and elliptic curves. **89h:11069**
— On the main conjecture of Iwasawa theory for imaginary quadratic fields. **89j:11105**
Shioda, Tetsuji Some observations on Jacobi sums. **89i:11067**
Stevens, Glenn Modular elliptic curves and values of L-functions. **89m:11057**
Wingberg, Kay *see* **Deninger, Ch., 89g:11045**
Zimmer, Horst Günter ★ Zur Arithmetik der elliptischen Kurven. (German) [On the arithmetic of elliptic curves] **89h:11024**

11G45 Geometric class field theory [see also 11R37]

Items with secondary classifications in 11G45

Beĭlinson, A. A. Correction to: "Notes on absolute Hodge cohomology" [*Applications of algebraic K-theory to algebraic geometry and number theory, Part I, II* (Boulder, Colo., 1983), 35–68, Amer. Math. Soc., Providence, R.I., 1986; MR 87m:14019]. **89a:14023**
Bloch, Spencer Cycles on arithmetic schemes and Euler characteristics of curves. **89b:14014**
— de Rham cohomology and conductors of curves. **89h:11028**
Hyodo, Osamu A note on p-adic étale cohomology in the semistable reduction case. **89h:14017**
Kato, Kazuya Swan conductors with differential values. **89k:11117**
— (*with* Saito, Shuji; Saito, Takeshi) Artin characters for algebraic surfaces. **89d:14027**
Ōnsiper, Hurşit On generalized Albanese varieties for surfaces. **89i:14040**
Saito, Shuji *see* **Kato, Kazuya; et al., 89d:14027**
Saito, Takeshi Self-intersection 0-cycles and coherent sheaves on arithmetic schemes. **89h:14021**
— *see also* **Kato, Kazuya; et al., 89d:14027**
Sivitskiĭ, I. Ya. Milnor K-theory of two-dimensional fields. (Russian) **89m:12005**

11G99 None of the above, but in this section

Silverman, Joseph H. Arithmetic distance functions and height functions in Diophantine geometry. **89a:11066**

Items with secondary classifications in 11G99

Bremner, A. The rational cuboid and a quartic surface. **89c:11041**
Kato, Kazuya (*with* Saito, Shuji; Saito, Takeshi) Artin characters for algebraic surfaces. **89d:14027**
Lenstra, H. W., Jr. Elliptic curves and number-theoretic algorithms. **89d:11114**
Saito, Shuji *see* **Kato, Kazuya; et al., 89d:14027**
Saito, Takeshi *see* **Kato, Kazuya; et al., 89d:14027**
Volovich, I. V. p-adic space-time and string theory. (Russian. English summary) **89h:81239**
Weissauer, Rainer Differentialformen zu Untergruppen der Siegelschen Modulgruppe zweiten Grades. [Differential forms attached to subgroups of the Siegel modular group of degree two] **89i:32074**
Yamakoshi, Hitoshi Arithmetic of strings. **89j:81231**

11Hxx Geometry of numbers

11H06 Lattices and convex bodies [see also 11P21]

Abdukhalikov, K. S. Invariant lattices in Lie algebras of type A_{q-1}. **89g:11054**
(Bambah, R. P.) *see* **Fejes Tóth, G., 89m:11063**
Cusick, T. W. (*with* Wolfskill, J.) Lattice octahedra and sums of powers of linear forms. **89m:11062**
Erdahl, R. M. (*with* Ryshkov, S. S.) The empty sphere. **89d:11053**
Fejes Tóth, G. Note to a paper of [R. P.] Bambah, [C. A.] Rogers and [H.] Zassenhaus: "On coverings with convex domains" [Acta Arith. **9** (1964), 191–207; MR **29** #3959]. **89m:11063**
Kannan, Ravindran (*with* Lovász, L.) Covering minima and lattice point free convex bodies. **89b:11055**
Koch, Helmut V. Unimodular lattices and self-dual codes. **89e:11036**
Kondo, Takeshi (*with* Tasaka, Takashi) The theta functions of sublattices of the Leech lattice. II. **89h:11030**
Lovász, L. *see* **Kannan, Ravindran, 89b:11055**
(Rogers, C. A.) *see* **Fejes Tóth, G., 89m:11063**
Ryshkov, S. S. *see* **Erdahl, R. M., 89d:11053**
Schinzel, A. Errata: "A decomposition of integer vectors. I" [Bull. Polish Acad. Sci. Math. **35** (1987), no. 3-4, 155–159; MR 88m:11050]. **89i:11070**
Scott, P. R. The fascination of the elementary. **89d:11054**
— The fascination of the elementary. **89k:11050**
— Modifying Minkowski's theorem. **89f:11087**
Tasaka, Takashi *see* **Kondo, Takeshi, 89h:11030**
Uhrin, B. The measure of covering $\mathbf{R}^n$ by lattice translates of a set. (Hungarian summary) **89e:11037**
— The measure of covering the space by a set A and the projection successive minima of $A - A$. **89c:11104**
Vallée, Brigitte Un problème central en géometrie algorithmique des nombres: la réduction des réseaux. Autour de l'algorithme de Lenstra Lenstra Lovasz. [A central problem in the algorithmic geometry of numbers: the reduction of lattices. Concerning the Lenstra-Lenstra-Lovász algorithm] **89i:11071**
Wolfskill, J. *see* **Cusick, T. W., 89m:11062**
(Zassenhaus, H.) *see* **Fejes Tóth, G., 89m:11063**

Items with secondary classifications in 11H06

Aurenhammer, F. (*with* Imai, Hiroshi) Geometric relations among Voronoĭ diagrams. **89h:51026**
(Bannai, Eiichi) *see* **Conway, J. H., 89a:11067**
Carrà Ferro, Giuseppa Some properties of the lattice points and their application to differential algebra. **89a:12014**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **89a:11067**
Groemer, H. On the Brunn-Minkowski theorem. **89k:52012**
Imai, Hiroshi *see* **Aurenhammer, F., 89h:51026**
Kannan, Ravindran Algorithmic geometry of numbers. **89a:11131**
— (*with* Lovász, L.) Covering minima and lattice-point-free convex bodies. **89i:52020**
(Leech, John) *see* **Conway, J. H., 89a:11067**
Lindsey, J. H., II A new lattice for the Hall-Janko group. **89g:20075**
Lovász, L. *see* **Kannan, Ravindran, 89i:52020**
Mendelsohn, N. S. Packing a square lattice with a rectangle-free set of points. **89h:52013**
(Norton, S. P.) *see* **Conway, J. H., 89a:11067**
(Odlyzko, A. M.) *see* **Conway, J. H., 89a:11067**
(Parker, R. A.) *see* **Conway, J. H., 89a:11067**
Paz, A. (*with* Schnorr, C.-P.) Approximating integer lattices by lattices with cyclic factor groups. **89e:06008**
Pohst, Michael A modification of the LLL reduction algorithm. **89c:11183**
Pu, Ding Guo A simpler proof of the inequality for the number of vectors in a positive basis. (Chinese) (Not in MR)
(Queen, L.) *see* **Conway, J. H., 89a:11067**
Schnorr, C.-P. *see* **Paz, A., 89e:06008**
Shao, You Yu *see* **Zhu, Fu Zu, 89k:11022**
Simonis, Juriaan The minimal covering radius $t[15, 6]$ of a six-dimensional binary linear code of length 15 is equal to 4. **89k:94063**
Sloane, N. J. A. *see* **Conway, J. H., 89a:11067**
(Venkov, B. B.) *see* **Conway, J. H., 89a:11067**
Wei, Lee-Fang Trellis-coded modulation with multidimensional constellations. **89c:94015**
Yakovlev, N. N. Asymptotics of the densities of optimal lattice k-packings and k-coverings, and an inhomogeneous ball problem. (Russian) **89j:11062**
Zhu, Fu Zu (*with* Shao, You Yu) On the construction of indecomposable positive definite quadratic forms over $\mathbf{Z}$. **89k:11022**

11H16 Nonconvex bodies

Items with secondary classifications in 11H16

Scott, P. R. The fascination of the elementary. **89d:11054**
— The fascination of the elementary. **89k:11050**
— Modifying Minkowski's theorem. **89f:11087**

11H25 Minkowski-Hlawka theorem; Siegel mean value theorem

Items with secondary classifications in 11H25

Freiman, G. (*with* Heppes, A.; Uhrin, B.) A lower estimation for the cardinality of finite difference sets in $\mathbf{R}^n$. **89e:05041**
Heppes, A. *see* **Freiman, G.; et al., 89e:05041**
Meyer, Mathieu (*with* Pajor, A.) Sections of the unit ball of L_p^n. **89h:52010**
Pajor, A. *see* **Meyer, Mathieu, 89h:52010**
Uhrin, B. *see* **Freiman, G.; et al., 89e:05041**
Uteshev, A. Yu. A criterion for the positive definiteness of homogeneous forms. **89i:11050**

11H31 Lattice packing and covering [see also 05B40, 52A45]

(Bannai, Eiichi) *see* **Conway, J. H., 89a:11067**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **89a:11067**
Gritzmann, Peter (*with* Wills, J. M.) An upper estimate for the lattice point enumerator. **89f:11088**

(Leech, John) *see* **Conway, J. H., 89a:11067**
(Norton, S. P.) *see* **Conway, J. H., 89a:11067**
(Odlyzko, A. M.) *see* **Conway, J. H., 89a:11067**
(Parker, R. A.) *see* **Conway, J. H., 89a:11067**
(Queen, L.) *see* **Conway, J. H., 89a:11067**
Sloane, N. J. A. *see* **Conway, J. H., 89a:11067**
(Venkov, B. B.) *see* **Conway, J. H., 89a:11067**
Wills, J. M. *see* **Gritzmann, Peter, 89f:11088**
Yakovlev, N. N. Asymptotics of the densities of optimal lattice k-packings and k-coverings, and an inhomogeneous ball problem. (Russian) **89j:11062**

Items with secondary classifications in 11H31

Beck, József On a lattice point problem of L. Moser. II. **89m:11095**
Beveraggi, M. (*with* Cohen, Gérard Denis) On the density of best coverings in Hamming spaces. (French summary) **89m:94012**
Cohen, Gérard Denis *see* **Beveraggi, M., 89m:94012**
Husimi, Kodi Rolling a tetrahedron on the plane to produce periodic patterns of symmetry $p2$ and drawing dragon curves as backbones of Escher figures. (*see* **89m:00011**)
Kannan, Ravindran (*with* Lovász, L.) Covering minima and lattice point free convex bodies. **89b:11055**
— (*with* Lovász, L.) Covering minima and lattice-point-free convex bodies. **89i:52020**
Kilby, Karen E. (*with* Sloane, N. J. A.) On the covering radius problem for codes. I. Bounds on normalized covering radius. **89e:94012a**
— (*with* Sloane, N. J. A.) On the covering radius problem for codes. II. Codes of low dimension; normal and abnormal codes. **89e:94012b**
Lovász, L. *see* **Kannan, Ravindran, 89b:11055** *and* **89i:52020**
Mögling, Werner Zur Gitterpunktüberdeckung durch reguläre n-ecke mit ungerader Eckenzahl. [On lattice-point covering by regular n-gons with odd number of vertices] **89e:52025**
Niizeki, K. A self-similar dodecagonal quasiperiodic tiling of the plane in terms of squares, regular hexagons and thin rhombi. **89m:05041**
Sloane, N. J. A. *see* **Kilby, Karen E., 89e:94012a** *and* **89e:94012b**
Solé, Patrick The Lee association scheme. **89j:94033**
Uhrin, B. The measure of covering the space by a set A and the projection successive minima of $A-A$. **89c:11104**

11H41 Miscellaneous problems

Faĭnleĭb, A. S. *see* **Tulyaganova, M. I., 89m:11064**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Asymptotic expansion of the density functions for prime vectors in integer lattices. (Russian) **89m:11064**

Items with secondary classifications in 11H41

Håstad, Johan Dual vectors and lower bounds for the nearest lattice point problem. **89i:11074**
Hensley, Doug A truncated Gauss-Kuzʹmin law. **89g:11066**
Uhrin, B. The measure of covering the space by a set A and the projection successive minima of $A-A$. **89c:11104**
Verger-Gaugry, J.-L. Approximate icosahedral periodic tilings with pseudo-icosahedral symmetry in reciprocal space. (French summary) **89k:52018**
Worley, R. T. The Voronoĭ region of E_7^*. **89k:11055**

11H46 Products of linear forms

Malyshev, A. V. Estimates for the inhomogeneous arithmetic minimum of a product of linear forms. (Russian) **89b:11056**

Items with secondary classifications in 11H46

Meyer, Mathieu (*with* Pajor, A.) Sections of the unit ball of L_p^n. **89h:52010**
Pajor, A. *see* **Meyer, Mathieu, 89h:52010**

11H50 Minima of forms

Csóka, G. There exists a basis of minimal vectors in every $n \leq 7$-dimensional perfect lattice. **89b:11057**
Dolbilin, N. P. A characteristic of lattices and the inhomogeneous Minkowski problem. (Russian) **89b:11058**
Gametskiĭ, A. F. Perfect quadratic forms and problems on arithmetic minima of quadratic forms. (Russian) **89k:11051**
Ilʹin, I. V. A remark on an estimate in the inhomogeneous Minkowski conjecture for small dimensions. (Russian) **89k:11052**
Larcher, G. A new extremal property of the Fibonacci ratio. **89k:11053**

Items with secondary classifications in 11H50

Aggarwal, Satish K. (*with* Gupta, D. P.) Positive values of inhomogeneous quadratic forms of signature -2. **89f:11089**
Cusick, T. W. (*with* Wolfskill, J.) Lattice octahedra and sums of powers of linear forms. **89m:11062**
Elser, Veit (*with* Sloane, N. J. A.) A highly symmetric four-dimensional quasicrystal. **89d:20042**
Gupta, D. P. *see* **Aggarwal, Satish K., 89f:11089**
Sloane, N. J. A. *see* **Elser, Veit, 89d:20042**
Wolfskill, J. *see* **Cusick, T. W., 89m:11062**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Aggarwal, Satish K. (*with* Gupta, D. P.) Positive values of inhomogeneous quaternary quadratic forms of type $(3,1)$. **89i:11072**
— (*with* Gupta, D. P.) Positive values of inhomogeneous quadratic forms of signature -2. **89f:11089**
Grenier, Douglas Fundamental domains for the general linear group. **89d:11055**
Gupta, D. P. *see* **Aggarwal, Satish K., 89f:11089** *and* **89i:11072**
Horváth, Ákos G. On n-dimensional Minkowski-reduced and Hermite-reduced lattice bases. (Hungarian. English and Russian summaries) **89f:11090**
Rousseau, George Note on the degree of concavity of the determinant on sets of positive definite quadratic forms. **89a:11068**
Schlickewei, Hans Peter (*with* Schmidt, Wolfgang M.) Quadratic forms which have only large zeros. **89k:11054**
Schmidt, Wolfgang M. *see* **Schlickewei, Hans Peter, 89k:11054**
Shushbaev, S. Sh. Voronoĭ neighborhoods of the perfect forms $\varphi_9(x_1,\cdots,x_7)$ and $\varphi_{20}(x_1,\cdots,x_7)$. (Russian) **89i:11073**
Worley, R. T. The Voronoĭ region of E_7^*. **89k:11055**

Items with secondary classifications in 11H55

Gametskiĭ, A. F. Perfect quadratic forms and problems on arithmetic minima of quadratic forms. (Russian) **89k:11051**
Kreher, Donald L. *see* **Radziszowski, Stanisław P., 89i:11142**
Ozeki, Michio Examples of even unimodular extremal lattices of rank 40 and their Siegel theta-series of degree 2. **89f:11061**
Radziszowski, Stanisław P. (*with* Kreher, Donald L.) Solving subset sum problems with the L^3 algorithm. **89i:11142**
Schnorr, C.-P. A hierarchy of polynomial time lattice basis reduction algorithms. **89h:11085**
— A more efficient algorithm for lattice basis reduction. **89h:11086**
Vaaler, Jeffrey D. Small zeros of quadratic forms over number fields. II. **89k:11021**

11H99 None of the above, but in this section

Håstad, Johan Dual vectors and lower bounds for the nearest lattice point problem. **89i:11074**

Items with secondary classifications in 11H99

Jean, Roger V. Number-theoretic properties of two-dimensional lattices. **89h:92019**
Meyerowitz, Aaron D. Tilings in **Z** with triples. **89f:52040**
Milman, Vitali D. A few observations on the connections between local theory and some other fields. **89h:52004**
Mundici, Daniele Farey stellar subdivisions, ultrasimplicial groups, and K_0 of AF C^*-algebras. **89d:46072**
Yavid, K. Yu. An estimate for the Hausdorff dimension of a set of singular vectors. (Russian. English summary) **89a:11082**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

(Baker, Alan) *see* **New advances in transcendence theory, 89f:11091**
Zhu, Yao Chen A test for algebraic independence of complex numbers over fields of finite transcendence type. (Chinese) (Not in MR)

Items listed otherwise than by author

Durham ★ New advances in transcendence theory. **89f:11091**
New advances in transcendence theory ★ New advances in transcendence theory. **89f:11091**
Symposium:
Transcendental Number Theory ★ New advances in transcendence theory. **89f:11091**

11J04 Homogeneous approximation to one number

Ito, Shunji On a Diophantine approximation of real numbers from below. **89f:11092**
Singh, Phagu A remark on Eggan's I_3. **89j:11063**
Tong, Jingcheng The conjugate property for Diophantine approximation of continued fractions. **89g:11055**

Items with secondary classifications in 11J04

Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Approximations and complex multiplication according to Ramanujan. **89f:11099**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89f:11099**

11J06 Markov and Lagrange spectra and generalizations

Pavone, M. On the condensation points of the Lagrange spectrum. **89d:11056**
Series, C. The Markoff spectrum in the Hecke group G_5. **89g:11056**
Sheingorn, Mark Rational solutions of $\sum_{i=1}^3 a_i x_i^2 = d x_1 x_2 x_3$ and simple closed geodesics on Fricke surfaces. **89j:11064**

Items with secondary classifications in 11J06

Buser, P. (*with* Semmler, K.-D.) The geometry and spectrum of the one-holed torus. **89k:58286**
Rudakov, A. N. Markov numbers and exceptional bundles on $\mathbf{P}^2$. **89f:14012**
Semmler, K.-D. *see* **Buser, P., 89k:58286**
Singh, Phagu A remark on Eggan's I_3. **89j:11063**

11J13 Simultaneous homogeneous approximation, linear forms

Balog, A. (*with* Friedlander, J. B.) Simultaneous Diophantine approximation using primes. **89h:11031**
Cusick, T. W. (*with* Krass, S.) Formulas for some Diophantine approximation constants. **89c:11105**
Dubitskas, A. Approximations of the logarithms of some numbers. (Russian) **89h:11032**
— Approximation of $\pi/\sqrt{3}$ by rational fractions. (Russian) **89b:11059**
Eckmann, Steffen Über die lineare Unabhängigkeit der Werte gewisser E-Funktionen. [On the linear independence of the values of certain E-functions] **89e:11038**

Friedlander, J. B. *see* **Balog, A., 89h:11031**

Krass, S. *see* **Cusick, T. W., 89c:11105**

Masser, D. W. Linear relations on algebraic groups. **89j:11065**

Thurnheer, P. Sur le théorème de Dirichlet concernant l'approximation diophantienne. [On the Dirichlet theorem concerning Diophantine approximation] (*see* **89k:11001**)

Items with secondary classifications in 11J13

Bulota, K. Solutions of a Diophantine inequality. (Russian. English and Lithuanian summaries) **89i:11076**

Farkas, Daniel R. The Diophantine nature of some constructions at infinity. **89m:20008**

Moskvin, D. A. Metric properties of the ergodic endomorphisms of a multidimensional torus. (Russian) **89j:11074**

Zheludevich, F. F. Approximations of S-adèles by algebraic numbers of bounded degree. (Russian. English summary) **89j:11069**

11J17 Approximation by numbers from a fixed field

Bombieri, Enrico (*with* van der Poorten, A. J.) Some quantitative results related to Roth's theorem. **89i:11075**

van der Poorten, A. J. *see* **Bombieri, Enrico, 89i:11075**

Items with secondary classifications in 11J17

Mueller, Julia H. (*with* Schmidt, Wolfgang M.) On the number of good rational approximations to algebraic numbers. **89m:11066**

Schmidt, Wolfgang M. *see* **Mueller, Julia H., 89m:11066**

11J25 Diophantine inequalities [see also 11D75]

Bulota, K. Solutions of a Diophantine inequality. (Russian. English and Lithuanian summaries) **89i:11076**

Nguyễn Xuân Viên Asymptotic behavior of the number of solutions of some systems of Diophantine inequalities. (Russian. English summary) **89f:11093**

Shan, Zun A Diophantine inequality. (Chinese) **89g:11057**

Items with secondary classifications in 11J25

Bombieri, Enrico On the Thue-Mahler equation. **89g:11027**

Cusick, T. W. (*with* Wolfskill, J.) Lattice octahedra and sums of powers of linear forms. **89m:11062**

Nakai, Yoshinobu On Diophantine inequalities of real indefinite quadratic forms of additive type in four variables. **89m:11034**

Wolfskill, J. *see* **Cusick, T. W., 89m:11062**

Xu, Guang Shan A note on the fractional parts of powers of rational numbers. (Chinese. English summary) **89j:11067**

11J52 Minima of higher degree forms and other functions [See mainly 11H50]

Items with secondary classifications in 11J52

Cusick, T. W. (*with* Wolfskill, J.) Lattice octahedra and sums of powers of linear forms. **89m:11062**

Wolfskill, J. *see* **Cusick, T. W., 89m:11062**

11J54 Small fractional parts of polynomials and generalizations

Items with secondary classifications in 11J54

Berend, Daniel A recurrence property of smooth functions. **89j:11066**

11J61 Approximation in non-Archimedean valuations

Knopfmacher, Arnold (*with* Knopfmacher, John) A product expansion in p-adic and other non-Archimedean fields. **89f:11094**

Knopfmacher, John *see* **Knopfmacher, Arnold, 89f:11094**

Mo, De Ze *see* **Wang, Lian Xiang, 89a:11069**

Wang, Lian Xiang (*with* Mo, De Ze) p-adic continued fractions. III. **89a:11069**

— (*with* Yuan, Jin) Simultaneous approximation schemes for p-adic numbers. (Chinese) (Not in MR)

Yuan, Jin *see* **Wang, Lian Xiang**, (Not in MR)

Items with secondary classifications in 11J61

Bombieri, Enrico (*with* van der Poorten, A. J.) Some quantitative results related to Roth's theorem. **89i:11075**

Laohakosol, Vichian (*with* Ubolsri, Patchara) p-adic continued fractions of Liouville type. **89f:11095**

van der Poorten, A. J. Solution de la conjecture de Pisot sur le quotient de Hadamard de deux fractions rationnelles. (English summary) [Solution of Pisot's conjecture on the Hadamard quotient of two rational functions] **89c:11153**

— *see also* **Bombieri, Enrico, 89i:11075**

Ubolsri, Patchara *see* **Laohakosol, Vichian, 89f:11095**

11J68 Rational approximation to algebraic numbers

Baker, Alan (*with* Stewart, C. L.) On effective approximations to cubic irrationals. **89m:11065**

Mueller, Julia H. (*with* Schmidt, Wolfgang M.) On the number of good rational approximations to algebraic numbers. **89m:11066**

Schmidt, Wolfgang M. *see* **Mueller, Julia H., 89m:11066**

Sós, Vera T. *see* **Szekeres, George, 89c:11106**

Stewart, C. L. *see* **Baker, Alan, 89m:11065**

Szekeres, George (*with* Sós, Vera T.) Rational approximation vectors. **89c:11106**

Items with secondary classifications in 11J68

Bombieri, Enrico (*with* van der Poorten, A. J.) Some quantitative results related to Roth's theorem. **89i:11075**

Lang, Serge The error term in Nevanlinna theory. **89g:32037**

Pathiaux-Delefosse, M. Résultat de Cantor et Straus sur la conjecture de Lehmer. [Result of Cantor and Straus on Lehmer's conjecture] **89k:11059**

van der Poorten, A. J. *see* **Bombieri, Enrico, 89i:11075**

11J69 Simultaneous rational approximation to algebraic numbers

Ferguson, Helaman Generalization of some algorithms of Euler. **89d:11057**

Items with secondary classifications in 11J69

Kannan, Ravindran Algorithmic geometry of numbers. **89a:11131**

Odoni, R. W. K. An application of the S-unit theorem to modular forms on $\Gamma_0(N)$. **89j:11044**

Vallée, Brigitte Un problème central en géometrie algorithmique des nombres: la réduction des réseaux. Autour de l'algorithme de Lenstra Lenstra Lovasz. [A central problem in the algorithmic geometry of numbers: the reduction of lattices. Concerning the Lenstra-Lenstra-Lovász algorithm] **89i:11071**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Allouche, Jean-Paul Sur le développement en fraction continue de certaines séries formelles. (English summary) [On the continued fraction expansion of some formal power series] **89m:11067**

Kopetzky, H. G. (*with* Schnitzer, F. J.) A geometrical approach to approximations by continued fractions. **89b:11060**

Laohakosol, Vichian (*with* Ubolsri, Patchara) p-adic continued fractions of Liouville type. **89f:11095**

Larcher, G. A convergence problem connected with continued fractions. **89i:11077**

van der Poorten, A. J. Remarks on the continued fractions of algebraic numbers. (*see* **89b:11004**)

Schnitzer, F. J. *see* **Kopetzky, H. G., 89b:11060**

Shiokawa, Iekata Rational approximations to the Rogers-Ramanujan continued fraction. **89f:11096**

Tong, Jingcheng Segre's theorem on asymmetric Diophantine approximation. **89h:11033**

Ubolsri, Patchara *see* **Laohakosol, Vichian, 89f:11095**

Items with secondary classifications in 11J70

Bulota, K. Calculation of the nearest integer. **89i:11014**

Degel, Bernhard Kettenbrüche in imaginärquadratischen Zahlkörpern mit Klassenzahl 1. [Continued fractions in imaginary quadratic number fields with class number 1] **89a:11112**

Győry, K. (*with* Shorey, T. N.) On the denominators of equivalent algebraic numbers. **89c:11113**

Ito, Shunji On a Diophantine approximation of real numbers from below. **89f:11092**

Lakhtakia, Akhlesh *see* **Raup, David J., 89d:82105**

Peretti, A. The irrationality of Euler's constant. **89f:11098**

Raup, David J. (*with* Lakhtakia, Akhlesh) Self-referential decomposition of a class of quadratic irrationals. **89d:82105**

Shorey, T. N. *see* **Győry, K., 89c:11113**

Singh, Phagu A remark on Eggan's I_3. **89j:11063**

Tong, Jingcheng The conjugate property for Diophantine approximation of continued fractions. **89g:11055**

de Weger, B. M. M. Periodicity of p-adic continued fractions. **89j:11006**

11J71 Distribution modulo one [see also 11K06]

Berend, Daniel A recurrence property of smooth functions. **89j:11066**

Furstenberg, H. (*with* Weiss, Benjamin) Simultaneous Diophantine approximation and IP-sets. **89f:11097**

Heath-Brown, D. R. The fractional part of αn^k. **89k:11056**

Hlawka, Edmund Eine Anwendung diophantischer Approximationen auf die Theorie von Differentialgleichungen. [An application of Diophantine approximations to the theory of differential equations] **89h:11034**

Mendès France, M. A Diophantine inequality. **89a:11070**

Weiss, Benjamin *see* **Furstenberg, H., 89f:11097**

Xu, Guang Shan A note on the fractional parts of powers of rational numbers. (Chinese. English summary) **89j:11067**

Items with secondary classifications in 11J71

Bosch, William Functions that preserve the uniform distribution of sequences. **89h:11046**

11J72 Irrationality; linear independence over a field

Badea, C. The irrationality of certain infinite products. **89b:11061**

Bézivin, Jean-Paul Indépendance linéaire des valeurs des solutions transcendantes de certaines équations fonctionnelles. (English summary) [Linear independence of the values of transcendental solutions of some functional equations] **89e:11039**

Erdős, Paul On the irrationality of certain series: problems and results. **89k:11057**

Girstmair, Kurt Character coordinates and annihilators of cyclotomic numbers. **89a:11071**

Huttner, Marc Monodromie et approximation diophantienne d'une constante liée aux fonctions elliptiques. (English summary) [Monodromy and Diophantine approximation for a number linked to elliptic functions] **89c:11107**

— Irrationalité de certaines intégrales hypergéométriques. [Irrationality of some hypergeometric integrals] **89a:11072**

Ivankov, P. L. Lower bounds for linear forms in the values of hypergeometric functions. (Russian) **89g:11058**

Kaplansky, Irving Hilbert's 7th problem: on certain irrational and transcendental numbers. (Swedish. English summary) **89g:11059**
Katsurada, Masanori Linear independence measures for certain numbers. **89k:11058**
Kholyavka, Ya. M. Simultaneous approximations of the invariants of an elliptic function by algebraic numbers. (Russian) **89b:11062**
Nabutovsky, Alexander Irrationality of limits of quickly convergent algebraic numbers sequences. **89h:11035**
Peretti, A. The irrationality of Euler's constant. **89f:11098**
Sándor, Iosif On the irrationality of some factorial series. (Romanian. English summary) **89g:11060**
Väänänen, K. (*with* Xu, Guang Shan) On linear forms of *G*-functions. **89m:11068**
Vasilenko, O. N. Linear independence of the values of some functions. (Russian) **89e:11040**
Xu, Guang Shan *see* **Väänänen, K., 89m:11068**

Items with secondary classifications in 11J72

Aviram, I. On the inflation, deflation and self-similarity of binary sequences. Application: a one-dimensional diatomic quasicrystal. **89a:82038**
Eckmann, Steffen Über die lineare Unabhängigkeit der Werte gewisser *E*-Funktionen. [On the linear independence of the values of certain *E*-functions] **89e:11038**
Tong, Jingcheng The conjugate property for Diophantine approximation of continued fractions. **89g:11055**

11J81 Transcendence (general theory)

Artmann, Benno (*with* Gerecke, W.; Spalt, Detlef D.) Transzendenzbeweis für *e* gestern und heute. [Proof of the transcendence of *e* yesterday and today] **89a:11073**
Bertrand, Daniel Lemmes de zéros et nombres transcendants. [Zero lemmas and transcendental numbers] **89a:11074**
Brownawell, W. Dale Note on a paper of P. Philippon: "Zero estimates in commutative algebraic groups" [Bull. Soc. Math. France **114** (1986), no. 3, 355–383]. **89a:11075**
Bundschuh, Peter (*with* Pethő, Attila) Zur Transzendenz gewisser Reihen. (English summary) [On the transcendence of certain series] **89h:11036**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Approximations and complex multiplication according to Ramanujan. **89f:11099**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89f:11099**
Gerecke, W. *see* **Artmann, Benno; et al., 89a:11073**
Pethő, Attila *see* **Bundschuh, Peter, 89h:11036**
Philippon, Patrice Errata and addenda to: "Zero estimates in commutative algebraic groups" [Bull. Soc. Math. France **114** (1986), no. 3, 355–383; MR 89c:11111]. (French) **89j:11068**
— *see also* **Brownawell, W. Dale, 89a:11075**
Spalt, Detlef D. *see* **Artmann, Benno; et al., 89a:11073**
Wakabayashi, Isao Algebraic values of functions on the unit disk. **89g:11061**
Wüstholz, G. Algebraic groups, Hodge theory, and transcendence. **89e:11041**
Zeren, Bedriye M. Über die Transzendenz der Werte einiger schnell konvergenter Potenzreihen für algebraische Argumente. (English and Turkish summaries) [On the transcendence of values of some rapidly convergent power series for algebraic arguments] **89b:11063**

Items with secondary classifications in 11J81

Allouche, Jean-Paul (*with* Randé, Bernard; Thimonier, Loÿs) Fonctions génératrices transcendantes à coefficients engendrés par automates. (English summary) [Transcendental generating functions with coefficients generated by automata] **89c:68079**
Amoroso, Francesco On the distribution of complex numbers according to their transcendence types. (Italian summary) **89i:11078**
Bertrand, Daniel (*with* Philippon, Patrice) Sous-groupes algébriques de groupes algébriques commutatifs. [Algebraic subgroups of commutative algebraic groups] **89i:14039**
Bowman, Douglas A new generalization of Davison's theorem. **89c:11016**
Kaplansky, Irving Hilbert's 7th problem: on certain irrational and transcendental numbers. (Swedish. English summary) **89g:11059**
Li, Wen Qing Applications of number theory to control systems. (Chinese. English summary) **89j:93055**
Mendès France, M. Some applications of the theory of automata. **89k:11062**
Philippon, Patrice *see* **Bertrand, Daniel, 89i:14039**
Randé, Bernard *see* **Allouche, Jean-Paul; et al., 89c:68079**
Sándor, Iosif On the irrationality of some factorial series. (Romanian. English summary) **89g:11060**
Thimonier, Loÿs *see* **Allouche, Jean-Paul; et al., 89c:68079**
Van Hamme, L. Proof of a conjecture of Beukers on Apéry numbers. **89b:11007**

11J82 Measures of irrationality and of transcendence

Amoroso, Francesco On the transcendence type of the classical numbers. (Italian summary) **89c:11108**
— On the distribution of complex numbers according to their transcendence types. (Italian summary) **89i:11078**
Becker-Landeck, Paul-Georg Maße für algebraische Unabhängigkeit nach einer Methode von Mahler. [Measures for algebraic independence, following a method of Mahler] **89i:11079**
Pathiaux-Delefosse, M. Résultat de Cantor et Straus sur la conjecture de Lehmer. [Result of Cantor and Straus on Lehmer's conjecture] **89k:11059**
Philippon, Patrice Sur les mesures d'indépendance algébrique. [On measures of algebraic independence] **89e:11042**
Reyssat, Éric Approximation des moyennes arithmético-géométriques. [Approximation of arithmetic-geometric means] **89h:11037**
Rukhadze, E. A. A lower bound for the approximation of ln 2 by rational numbers. (Russian) **89b:11064**
Takeuchi, Mamoru Remark on Moreno's theorem. **89i:11080**

Items with secondary classifications in 11J82

Baker, Alan (*with* Stewart, C. L.) On effective approximations to cubic irrationals. **89m:11065**
Cherif, Habib (*with* de Mathan, Bernard) Mesure d'irrationalité de la valeur en 1 de la fonction zeta de Carlitz, relative à $\mathbf{F}_2(\mathrm{T})$. (English summary) [An irrationality measure of the Carlitz zeta function for $\mathbf{F}_2(\mathrm{T})$ at 1] **89b:11093**
Huttner, Marc Irrationalité de certaines intégrales hypergéométriques. [Irrationality of some hypergeometric integrals] **89a:11072**
Katsurada, Masanori Linear independence measures for certain numbers. **89k:11058**
de Mathan, Bernard *see* **Cherif, Habib, 89b:11093**
Stewart, C. L. *see* **Baker, Alan, 89m:11065**

11J83 Metric theory

Harman, Glyn Metric Diophantine approximation with two restricted variables. III. Two prime numbers. **89h:11039**
— Metric Diophantine approximation with two restricted variables. I. Two square-free integers, or integers in arithmetic progressions. **89h:11038**
— Metric Diophantine approximation with two restricted variables. II. A prime and a square-free integer. **89m:11069**
Nakada. Hitoshi On metrical theory of Diophantine approximation over imaginary quadratic field. **89m:11070**
Nguyễn Xuân Viên Diophantine approximations on manifolds. (Russian. English summary) **89h:11040**
— Diophantine approximations on linear manifolds. (Russian. English summary) **89i:11081**
Zheludevich, F. F. Approximations of *S*-adèles by algebraic numbers of bounded degree. (Russian. English summary) **89j:11069**

Items with secondary classifications in 11J83

Amoroso, Francesco On the distribution of complex numbers according to their transcendence types. (Italian summary) **89i:11078**

11J85 Algebraic independence; Gel′fond's method

Brownawell, W. Dale The effectivity of certain measures of algebraic independence. **89f:11100**
— Large transcendence degree revisited. I. Exponential and non-CM cases. **89h:11042**
— (*with* Tubbs, Robert) Large transcendence degree revisited. II. The CM case. **89h:11043**
— Local Diophantine Nullstellen inequalities. **89h:11041**
Diaz, Guy Grands degrés de transcendance pour des familles d'exponentielles. (English summary) [Large transcendence degree for exponential families] **89a:11076**
Kulagin, V. A. Algebraic independence of the values of a subclass of *E*-functions. (Russian) **89c:11109**
Salikhov, V. Kh. Algebraic independence of the values of hypergeometric *E*-functions of a certain class. (Russian) **89c:11110**
Tubbs, Robert A Diophantine problem on elliptic curves. **89k:11060**
— *see also* **Brownawell, W. Dale, 89h:11043**
Zhu, Yao Chen A criterion for algebraic independence of numbers. (Chinese) (Not in MR)

Items with secondary classifications in 11J85

Evertse, J.-H. (*with* Győry, K.; Stewart, C. L.; Tijdeman, R.) *S*-unit equations and their applications. **89j:11028**
Gorelov, V. A. Effective estimates for the measures of algebraic independence of the values of some hypergeometric *E*-functions. (Russian) **89g:11062**
Győry, K. *see* **Evertse, J.-H.; et al., 89j:11028**
Laohakosol, Vichian (*with* Ubolsri, Patchara) *p*-adic continued fractions of Liouville type. **89f:11095**
Stewart, C. L. *see* **Evertse, J.-H.; et al., 89j:11028**
Tijdeman, R. *see* **Evertse, J.-H.; et al., 89j:11028**
Ubolsri, Patchara *see* **Laohakosol, Vichian, 89f:11095**

11J86 Linear forms in logarithms; Baker's method

Philippon, Patrice (*with* Waldschmidt, Michel) Formes linéaires de logarithmes sur les groupes algébriques commutatifs. [Linear forms of logarithms on commutative algebraic groups] **89j:11070**
Waldschmidt, Michel *see* **Philippon, Patrice, 89j:11070**
Wüstholz, G. A new approach to Baker's theorem on linear forms in logarithms. I, II. **89f:11101**

Items with secondary classifications in 11J86

Baker, Alan (*with* Stewart, C. L.) On effective approximations to cubic irrationals. **89m:11065**
Kaminski, Michael Cyclotomic polynomials and units in cyclotomic number fields. **89d:11014**
Masser, D. W. Linear relations on algebraic groups. **89j:11065**
Stewart, C. L. *see* **Baker, Alan, 89m:11065**

11J87 Applications to Diophantine equations and other arithmetic problems

Evertse, J.-H. (*with* Győry, K.) On the numbers of solutions of weighted unit equations. **89i:11082**
Győry, K. *see* **Evertse, J.-H., 89i:11082**

Items with secondary classifications in 11J87

Brindza, B. On *S*-integral solutions of the Catalan equation. **89d:11022**
Gaál, István Integral elements with given discriminant. **89c:11169**
Győry, K. (*with* Shorey, T. N.) On the denominators of equivalent algebraic numbers. **89c:11113**

Kotov, S. V. S-integer solutions of a class of normed Diophantine equations. (Russian) **89c:11050**
— S-integral solutions of a class of Diophantine equations of norm form with a polynomial right-hand side. (Russian) **89k:11015**
Murty, Maruti Ram (*with* Murty, V. Kumar; Shorey, T. N.) Odd values of the Ramanujan τ-function. (French summary) **89c:11071**
Murty, V. Kumar *see* **Murty, Maruti Ram; et al., 89c:11071**
Shorey, T. N. (*with* Stewart, C. L.) Pure powers in recurrence sequences and some related Diophantine equations. **89a:11024**
— Some exponential Diophantine equations. **89m:11031**
— *see also* **Murty, Maruti Ram; et al., 89c:11071** *and* **Győry, K., 89c:11113**
Sprindzhuk, V. G. Arithmetic specializations theory. **89m:11022**
Stewart, C. L. *see* **Shorey, T. N., 89a:11024**

11J89 Transcendence theory of elliptic and abelian functions and algebraic groups

Philippon, Patrice Lemmes de zéros dans les groupes algébriques commutatifs. (English summary) [Zero estimates in commutative algebraic groups] **89c:11111**

Items with secondary classifications in 11J89

Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Approximations and complex multiplication according to Ramanujan. **89f:11099**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89f:11099**
Hindry, Marc Autour d'une conjecture de Serge Lang. [On a conjecture of Serge Lang] **89k:11046**
Masser, D. W. Small values of heights on families of abelian varieties. **89g:11048**
Philippon, Patrice (*with* Waldschmidt, Michel) Formes linéaires de logarithmes sur les groupes algébriques commutatifs. [Linear forms of logarithms on commutative algebraic groups] **89j:11070**
Väänänen, K. (*with* Xu, Guang Shan) On linear forms of G-functions. **89m:11068**
Waldschmidt, Michel *see* **Philippon, Patrice, 89j:11070**
Xu, Guang Shan *see* **Väänänen, K., 89m:11068**

11J91 Transcendence theory of other special functions

Dèbes, Pierre G-fonctions et théorème d'irreductibilité de Hilbert. [G-functions and Hilbert's irreducibility theorem] **89c:11112**
Gorelov, V. A. Effective estimates for the measures of algebraic independence of the values of some hypergeometric E-functions. (Russian) **89g:11062**
Popov, A. Yu. Arithmetic properties of the values of some infinite products. (Russian) **89d:11058**
Shidlovskiĭ, A. B. On arithmetic properties of the values of E-functions. **89i:11083**
Wolfart, Jürgen Werte hypergeometrischer Funktionen. (English summary) [Values of hypergeometric functions] **89g:11063**
Xu, Guang Shan On G-functions. **89f:11102**

Items with secondary classifications in 11J91

Damamme, Gilles (*with* Hellegouarch, Yves) Propriétés de transcendance des valeurs de la fonction zéta de Carlitz. (English summary) [Transcendence properties of the values of Carlitz's zeta function] **89k:11115**
Eckmann, Steffen Über die lineare Unabhängigkeit der Werte gewisser E-Funktionen. [On the linear independence of the values of certain E-functions] **89e:11038**
Hellegouarch, Yves *see* **Damamme, Gilles, 89k:11115**
Ivankov, P. L. Lower bounds for linear forms in the values of hypergeometric functions. (Russian) **89g:11058**
Salikhov, V. Kh. Algebraic independence of the values of hypergeometric E-functions of a certain class. (Russian) **89c:11110**
Wakabayashi, Isao Algebraic values of functions on the unit disk. **89g:11061**
Wüstholz, G. Algebraic groups, Hodge theory, and transcendence. **89e:11041**

11J99 None of the above, but in this section

Beukers, F. (*with* Wolfart, Jürgen) Algebraic values of hypergeometric functions. **89m:11071**
Győry, K. (*with* Shorey, T. N.) On the denominators of equivalent algebraic numbers. **89c:11113**
Müller, Helmut A. (*with* Nowak, Werner Georg) Über ein Grenzwertproblem bei Ford-Kreisen. [On a limit problem in Ford circles] **89h:11044**
Nowak, Werner Georg *see* **Müller, Helmut A., 89h:11044**
Shorey, T. N. *see* **Győry, K., 89c:11113**
Voloch, J. F. Diophantine approximation in positive characteristic. **89h:11045**
Wolfart, Jürgen *see* **Beukers, F., 89m:11071**

Items with secondary classifications in 11J99

Brownawell, W. Dale Bounds for the degrees in the Nullstellensatz. **89b:12001**
— Borne effective pour l'exposant dans le théorème des zéros. (English summary) [An effective bound for the exponent in the Nullstellensatz] **89b:12002**
— *see also* **Philippon, Patrice, 89h:12003**
Cerlienco, L. (*with* Mignotte, Maurice; Piras, F.) Computing the measure of a polynomial. **89a:12001**
Furstenberg, H. (*with* Weiss, Benjamin) Simultaneous Diophantine approximation and IP-sets. **89f:11097**
Kannan, Ravindran (*with* Lenstra, A. K.; Lovász, L.) Polynomial factorization and nonrandomness of bits of algebraic and some transcendental numbers. **89j:68061**
Kollár, János Sharp effective Nullstellensatz. **89h:12008**
Langevin, Michel Calculs explicites de constantes de Lehmer. [Explicit computations of Lehmer constants] **89j:11025**
Lenstra, A. K. *see* **Kannan, Ravindran; et al., 89j:68061**
Lovász, L. *see* **Kannan, Ravindran; et al., 89j:68061**
Mignotte, Maurice *see* **Cerlienco, L.; et al., 89a:12001**
Philippon, Patrice On the article "Bounds for the degrees in the Nullstellensatz" [Ann. of Math. (2) **126** (1987), no. 3, 557–591; MR 89b:12001] by W. D. Brownawell. (French) **89h:12003**
Piras, F. *see* **Cerlienco, L.; et al., 89a:12001**
Weiss, Benjamin *see* **Furstenberg, H., 89f:11097**
Yavid, K. Yu. An estimate for the Hausdorff dimension of a set of singular vectors. (Russian. English summary) **89a:11082**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Items with secondary classifications in 11Kxx

(Elliott, P. D. T. A.) *see* **Postnikov, A. G., 89a:11001**
(Kandall, G. A.) *see* **Postnikov, A. G., 89a:11001**
Postnikov, A. G. ★ Introduction to analytic number theory. **89a:11001**
(Silver, Ben) *see* **Postnikov, A. G., 89a:11001**

11K06 General theory of distribution modulo 1 [see also 11J71]

Andrica, Dorin (*with* Buzeţeanu, Şerban) Relatively dense universal sequences for the class of continuous periodical functions of period T. **89i:11084**
Berend, Daniel Actions of sets of integers on irrationals. **89a:11077**
Bosch, William Functions that preserve the uniform distribution of sequences. **89h:11046**
Buzeţeanu, Şerban *see* **Andrica, Dorin, 89i:11084**
Cochrane, Todd Trigonometric approximation and uniform distribution modulo one. **89j:11071**
Codecà, P. (*with* Perelli, Alberto) On the uniform distribution (mod 1) of the Farey fractions and l^p spaces. **89b:11065**
Coquet, Jean (*with* Liardet, Pierre) A metric study involving independent sequences. **89e:11043**
Drmota, Michael (*with* Tichy, Robert F.) C-uniform distribution on compact metric spaces. **89a:11078**
— An optimal lower bound for the discrepancy of c-uniformly distributed functions modulo 1. **89c:11114**
Hlawka, Edmund Über die geometrische Reihe von E. Hecke. [On the geometric series of E. Hecke] **89c:11115**
Jager, Henk (*with* Liardet, Pierre) Distributions arithmétiques des dénominateurs de convergents de fractions continues. [Arithmetical distributions of the denominators of convergents of continued fractions] **89i:11085**
Kanemitsu, Shigeru (*with* Nagasaka, Kenji; Rauzy, Gérard; Shiue, Jau Shyong) On Benford's law: the first digit problem. **89d:11059**
Kátai, I. Uniform distribution of sequences connected with arithmetical functions. **89i:11086**
Larcher, G. A best lower bound for good lattice points. **89f:11103**
— On the distribution of sequences connected with digit-representation. **89f:11104**
Liardet, Pierre Propriétés harmoniques de la numération suivant Jean Coquet. [Harmonic properties of numbering following Jean Coquet] **89i:11087**
— *see also* **Coquet, Jean, 89e:11043** *and* **Jager, Henk, 89i:11085**
Mauduit, Christian Substitutions et équirépartition modulo 1. [Permutations and uniform distribution modulo 1] **89j:11072**
— Sur l'ensemble normal des substitutions de longueur quelconque. [On the normal set of substitutions of any length] **89j:11073**
Moskvin, D. A. Metric properties of the ergodic endomorphisms of a multidimensional torus. (Russian) **89j:11074**
Nagasaka, Kenji *see* **Kanemitsu, Shigeru; et al., 89d:11059**
Perelli, Alberto *see* **Codecà, P., 89b:11065**
Porubský, Š. (*with* Šalát, T.; Strauch, O.) Transformations that preserve uniform distribution. **89m:11072**
Rauzy, Gérard *see* **Kanemitsu, Shigeru; et al., 89d:11059**
Šalát, T. *see* **Porubský, Š.; et al., 89m:11072**
Schatte, Peter On the uniform distribution of certain sequences and Benford's law. **89j:11075**
— On the discrepancy of well-distributed sequences. **89k:11061**
Shiue, Jau Shyong *see* **Kanemitsu, Shigeru; et al., 89d:11059**
Strauch, O. *see* **Porubský, Š.; et al., 89m:11072**
Talalyan, F. A. Uniformly distributed sequences and rearrangements. (Russian. Armenian summary) **89e:11044**
— Sequences of sets, and uniform distribution. (Russian. English and Armenian summaries) **89e:11045**
Tichy, Robert F. *see* **Drmota, Michael, 89a:11078**

Items with secondary classifications in 11K06

Borel, J.-P. Discrépances de suites homothétiques. (English summary) [Discrepancies of homothetic sequences] **89a:11081**
Kőrnyei, I. On a theorem of Pisot. **89e:11046**
Mitreva, Nedyalka A. *see* **Proĭnov, Petko D., 89j:11078** *and* **89k:11066**
Niederreiter, Harald A statistical analysis of generalized feedback shift register pseudorandom number generators. **89f:65009**
Proĭnov, Petko D. (*with* Mitreva, Nedyalka A.) On some inequalities in the theory of uniform distribution. I. **89j:11078**
— (*with* Mitreva, Nedyalka A.) On some inequalities in the theory of uniform distribution. II. **89k:11066**
Queffélec, Martine ★ Substitution dynamical systems—spectral analysis. **89g:54094**
Schneider, Rudolf Capacity of sets and uniform distribution of sequences. **89f:11108**
Tichy, Robert F. (*with* Turnwald, G.) Gleichmässige Diskrepanzabschätzung für Ziffernsummen. [Uniform estimate of discrepancy for sums of digits] **89b:11067**

— Gleichverteilung zum Summierungsverfahren H_∞. [Uniform distribution for the summation method H_∞] **89a:40010**

Turnwald, G. *see* **Tichy, Robert F., 89b:11067**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Dumont, Jean-Marie (*with* Thomas, Alain) Une modification multiplicative des nombres g normaux. (English summary) [A multiplicative modification of g-normal numbers] **89h:11047**

Kalpazidou, Sofia Khintchine's constant for Lüroth representation. **89f:11105**

Mendès France, M. Some applications of the theory of automata. **89k:11062**

Moran, William Uniform distribution and normal numbers. **89f:11106**

— (*with* Pearce, C. E. M.) Discrepancy results for normal numbers. **89f:11107**

Pearce, C. E. M. *see* **Moran, William, 89f:11107**

Pollington, Andrew D. The Hausdorff dimension of a set of normal numbers. II. **89b:11066**

Shallit, Jeffrey Sur certains produits liés aux sommes des chiffres. [On certain products associated to sums of digits] **89j:11076**

Thomas, Alain *see* **Dumont, Jean-Marie, 89h:11047**

Items with secondary classifications in 11K16

Blanchard, F. Développement des nombres réels en base non entière. (English summary) [Expansion of real numbers in a nonintegral base] **89j:11077**

Cutler, C. D. A note on equivalent interval covering systems for Hausdorff dimension on **R**. **89h:28008**

Gilbert, William J. Complex bases and fractal similarity. (French summary) **89a:11017**

Kamae, Teturo Cyclic extensions of odometer transformations and spectral disjointness. **89c:28026**

Larcher, G. On the distribution of sequences connected with digit-representation. **89f:11104**

Liardet, Pierre Propriétés harmoniques de la numération suivant Jean Coquet. [Harmonic properties of numbering following Jean Coquet] **89i:11087**

Lyons, Russell On measures simultaneously 2- and 3-invariant. **89e:28031**

Smorodinsky, M. (*with* Weiss, Benjamin) Normal sequences for Markov shifts and intrinsically ergodic subshifts. **89b:28006**

Weiss, Benjamin *see* **Smorodinsky, M., 89b:28006**

11K26 PV-numbers

Blanchard, F. Développement des nombres réels en base non entière. (English summary) [Expansion of real numbers in a nonintegral base] **89j:11077**

Kõrnyei, I. On a theorem of Pisot. **89e:11046**

Items with secondary classifications in 11K26

Bombieri, Enrico (*with* Taylor, Jean E.) Quasicrystals, tilings, and algebraic number theory: some preliminary connections. **89a:82031**

Decomps-Guilloux, Annette (*with* Grandet-Hugot, Marthe) Nouvelles caractérisations des nombres de Pisot et de Salem. [New characterizations of the Pisot and Salem numbers] **89g:11097**

Grandet-Hugot, Marthe *see* **Decomps-Guilloux, Annette, 89g:11097**

Pathiaux-Delefosse, M. Propriété de grands nombres de Pisot. [A property of large Pisot numbers] **89j:11102**

Smyth, C. J. Generalised Salem numbers. **89k:11098**

Taylor, Jean E. *see* **Bombieri, Enrico, 89a:82031**

11K31 Other special sequences

Barbé, André Periodic patterns in the binary difference field. **89k:11063a**

— Erratum: "Periodic patterns in the binary difference field". **89k:11063b**

Cierzynski, T. C. (*with* von Weber, Stefan Michael) Canonical sequences and simulation. **89c:11116**

Helmberg, Gilbert On subsequences of normal sequences. **89g:11064**

Lohöfer, G. (*with* Mayer, Dieter H.) On the gap problem for the sequence $\|m\beta\|$. **89g:11065a**

Mayer, Dieter H. On the distribution of recurrence times in nonlinear systems. **89g:11065b**

— *see also* **Lohöfer, G., 89g:11065a**

Salon, Olivier Substitutions, automates et séries formelles relatifs aux suites à multi-indices. [Permutations, automata and formal series relative to sequences with multi-indices] (*see* 89b:11004)

Schneider, Rudolf Capacity of sets and uniform distribution of sequences. **89f:11108**

Topuzoğlu, Alev Repeated rearrangements of uniformly distributed sequences. (Turkish summary) **89a:11079**

von Weber, Stefan Michael *see* **Cierzynski, T. C., 89c:11116**

Items with secondary classifications in 11K31

Allouche, Jean-Paul (*with* Randé, Bernard; Thimonier, Loÿs) Fonctions génératrices transcendantes à coefficients engendrés par automates. (English summary) [Transcendental generating functions with coefficients generated by automata] **89c:68079**

— Automates finis, arithmétique et systèmes dynamiques. (English summary) [Finite automata, arithmetic and dynamical systems] **89f:11027**

Axel, Françoise (*with* Peyrière, Jacques) États étendus dans une chaîne à désordre contrôlé. (English summary) [Extended states in a chain with controlled disorder] **89m:82041**

Borel, J.-P. Suites et mesures ayant des propriétés d'auto-similarité. [Sequences and measures with self-similarity properties] **89i:11089**

Bourgain, J. Ruzsa's problem on sets of recurrence. **89d:11012**

Cameron, Peter J. On the structure of a random sum-free set. **89c:11018**

Masol, V. I. Limit distributions of some statistics of an integer sequence. (Russian) **89a:60067**

Myerson, Gerald Dedekind sums and uniform distribution. **89e:11026**

Peyrière, Jacques *see* **Axel, Françoise, 89m:82041**

Randé, Bernard *see* **Allouche, Jean-Paul; et al., 89c:68079**

Schatte, Peter On the almost sure convergence of floating-point mantissas and Benford's law. **89g:60114**

— On the uniform distribution of certain sequences and Benford's law. **89j:11075**

— On a law of the iterated logarithm for sums mod 1 with application to Benford's law. **89b:60081**

Thimonier, Loÿs *see* **Allouche, Jean-Paul; et al., 89c:68079**

11K36 Well-distributed sequences and other variations

Allouche, Jean-Paul (*with* Deshouillers, Jean-Marc) Répartition de la suite des puissances d'une série formelle algébrique. (English summary) [Distribution of the sequence of powers of a formal algebraic series] **89i:11088**

Deshouillers, Jean-Marc *see* **Allouche, Jean-Paul, 89i:11088**

Drmota, Michael Metrische Sätze über schwach gleichmässig gleichverteilte Funktionen. [Metric theorems on weakly uniformly distributed functions] **89m:11073**

Hensley, Doug A truncated Gauss-Kuz'min law. **89g:11066**

Items with secondary classifications in 11K36

Drmota, Michael (*with* Tichy, Robert F.) C-uniform distribution of entire functions. **89j:30039**

Hatada, Kazuyuki Chi-square tests for mod 1 distribution of Fermat and Fibonacci quotients. **89d:11105**

Niederreiter, Harald Low-discrepancy and low-dispersion sequences. **89k:11064**

Tichy, Robert F. *see* **Drmota, Michael, 89j:30039**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Beck, József Irregularities of distribution. I. **89c:11117**

— On the discrepancy of convex plane sets. **89f:11109**

— Irregularities of distribution. II. **89c:11118**

Belotserkovskiĭ, Yu. F. Uniform distribution of algebraic numbers near the unit circle. (Russian. English summary) **89f:11110**

Bobrovskiĭ, V. P. ω-uniform distributions. (Russian) **89a:11080**

Borel, J.-P. Discrépances de suites homothétiques. (English summary) [Discrepancies of homothetic sequences] **89a:11081**

— Suites et mesures ayant des propriétés d'auto-similarité. [Sequences and measures with self-similarity properties] **89i:11089**

Grozdanov, Vasil S. *see* **Proĭnov, Petko D., 89c:11121** *and* **89k:11065**

Kopecek, N. (*with* Larcher, G.; Tichy, Robert F.; Turnwald, G.) On the discrepancy of sequences associated with the sum-of-digits function. (French summary) **89c:11119**

Kuipers, L. (*with* Shiue, Jau Shyong) On the L^p-discrepancy of certain sequences. **89g:11067**

Lambert, J. P. A sequence well dispersed in the unit square. **89i:11090**

Larcher, G. *see* **Kopecek, N.; et al., 89c:11119**

Mitreva, Nedyalka A. *see* **Proĭnov, Petko D., 89j:11078** *and* **89k:11066**

Niederreiter, Harald Point sets and sequences with small discrepancy. **89c:11120**

— Low-discrepancy and low-dispersion sequences. **89k:11064**

Proĭnov, Petko D. (*with* Grozdanov, Vasil S.) Symmetrization of the van der Corput-Halton sequence. **89c:11121**

— (*with* Grozdanov, Vasil S.) On the diaphony of the van der Corput-Halton sequence. **89k:11065**

— Symmetrization of the van der Corput generalized sequences. **89i:11091**

— (*with* Mitreva, Nedyalka A.) On some inequalities in the theory of uniform distribution. I. **89j:11078**

— (*with* Mitreva, Nedyalka A.) On some inequalities in the theory of uniform distribution. II. **89k:11066**

Shiue, Jau Shyong *see* **Kuipers, L., 89g:11067**

Tichy, Robert F. (*with* Turnwald, G.) Gleichmässige Diskrepanzabschätzung für Ziffernsummen. [Uniform estimate of discrepancy for sums of digits] **89b:11067**

— *see also* **Kopecek, N.; et al., 89c:11119**

Turnwald, G. *see* **Tichy, Robert F., 89b:11067** *and* **Kopecek, N.; et al., 89c:11119**

Items with secondary classifications in 11K38

Allouche, Jean-Paul (*with* Deshouillers, Jean-Marc) Répartition de la suite des puissances d'une série formelle algébrique. (English summary) [Distribution of the sequence of powers of a formal algebraic series] **89i:11088**

Bárány, I. (*with* Füredi, Z.) Empty simplices in Euclidean space. **89g:52004**

Beck, József On a lattice point problem of L. Moser. I. **89k:11094**

— On a lattice point problem of L. Moser. II. **89m:11095**

— Balanced two-colorings of finite sets in the cube. **89i:05040**

Deshouillers, Jean-Marc *see* **Allouche, Jean-Paul, 89i:11088**

Eigen, Stanley (*with* Hajian, Arshag) Poincaré sequences in infinite measure spaces and complementing subsets of the integers. **89i:28009**

Füredi, Z. *see* **Bárány, I., 89g:52004**

Godrèche, C. (*with* Luck, J. M.; Vallet, F.) Quasiperiodicity and types of order: a study in one dimension. **89c:82054**

Hajian, Arshag *see* **Eigen, Stanley, 89i:28009**

Luck, J. M. *see* **Godrèche, C.; et al., 89c:82054**

Moran, William (*with* Pearce, C. E. M.) Discrepancy results for normal numbers. **89f:11107**

Pearce, C. E. M. *see* **Moran, William, 89f:11107**

Proĭnov, Petko D. Integration of smooth functions and φ-discrepancy. **89e:41039**

Tichy, Robert F. Gleichverteilung zum Summierungsverfahren H_∞. [Uniform distribution for the summation method H_∞] **89a:40010**

Vallet, F. *see* **Godrèche, C.; et al., 89c:82054**

11K41 Continuous, p-adic and abstract analogues

Mauduit, Christian (*with* Mossé, Brigitte) Étude spectrale de la multiplication q-adique. (English summary) [Spectral study of q-adic multiplication] **89g:11068**

Mossé, Brigitte *see* **Mauduit, Christian, 89g:11068**

Nagasaka, Kenji (*with* Shiue, Jau Shyong) Asymptotic distribution and independence of sequences of g-adic integers. **89f:11111**

Shiue, Jau Shyong *see* **Nagasaka, Kenji, 89f:11111**

Tichy, Robert F. (*with* Turnwald, G.) Weak uniform distribution of $u_{n+1} = au_n + b$ in Dedekind domains. **89d:11060**

Turnwald, G. *see* **Tichy, Robert F., 89d:11060**

Items with secondary classifications in 11K41

Drmota, Michael Metrische Sätze über schwach gleichmässig gleichverteilte Funktionen. [Metric theorems on weakly uniformly distributed functions] **89m:11073**

Mossé, Brigitte Mesures spectrales q-adiques de suites arithmétiques. (English summary) [q-adic spectral measures of arithmetic sequences] **89j:11080**

11K45 Pseudo-random numbers; Monte Carlo methods

Niederreiter, Harald Good lattice points for quasirandom search methods. **89f:11112**

— Statistical independence of nonlinear congruential pseudorandom numbers. **89j:11079**

Items with secondary classifications in 11K45

Compagner, A. (*with* Hoogland, A.) Maximum-length sequences, cellular automata, and random numbers. **89a:65009**

De Matteis, A. (*with* Pagnutti, S.) Parallelization of random number generators and long-range correlations. **89h:65016**

Dobris, G. V. (*with* Kopytin, S. F.) Mutually correlated properties of sequences that can be obtained in multichannel pseudorandom number generators. (Russian) **89h:65017**

Eichenauer, Jürgen (*with* Lehn, Jürgen; Topuzoğlu, Alev) A nonlinear congruential pseudorandom number generator with power of two modulus. **89i:65007**

Eichenauer-Herrmann, Jürgen (*with* Grothe, Holger; Lehn, Jürgen) On the period length of pseudorandom vector sequences generated by matrix generators. **89g:65010**

Grothe, Holger *see* **Eichenauer-Herrmann, Jürgen; et al., 89g:65010**

Hoogland, A. *see* **Compagner, A., 89a:65009**

Kopytin, S. F. *see* **Dobris, G. V., 89h:65017**

Lehn, Jürgen *see* **Eichenauer-Herrmann, Jürgen; et al., 89g:65010** *and* **Eichenauer, Jürgen; et al., 89i:65007**

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Topuzoğlu, Alev *see* **Eichenauer, Jürgen; et al., 89i:65007**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Fluch, Wolfgang Eine Verallgemeinerung des Kuz′min-Theorems. [A generalization of the Kuz′min theorem] **89c:11122**

Ito, Shunji Ergodic theory and Diophantine approximations: on natural extensions of algorithms. (Japanese) **89k:11067**

Nakada, Hitoshi On ergodic theory of A. Schmidt's complex continued fractions over Gaussian field. **89f:11113**

Niederreiter, Harald Continued fractions for formal power series, pseudorandom numbers, and linear complexity of sequences. **89e:11047**

Riesel, Hans Errata: "On the metric theory of nearest integer continued fractions" [BIT 27 (1987), no. 2, 248–263; MR 88k:11048]. **89f:11114**

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Heinrich, Lothar Rates of convergence in stable limit theorems for sums of exponentially ψ-mixing random variables with an application to metric theory of continued fractions. **89a:60061**

Jager, Henk (*with* Liardet, Pierre) Distributions arithmétiques des dénominateurs de convergents de fractions continues. [Arithmetical distributions of the denominators of convergents of continued fractions] **89i:11085**

Liardet, Pierre *see* **Jager, Henk, 89i:11085**

Mayer, Dieter H. (*with* Roepstorff, G.) On the relaxation time of Gauss's continued-fraction map. I. The Hilbert space approach (Koopmanism). **89a:28017**

Philipp, Walter Limit theorems for sums of partial quotients of continued fractions. **89e:60069**

Roepstorff, G. *see* **Mayer, Dieter H., 89a:28017**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99]

Candeloro, Domenico Transformation-invariant measures in higher dimensions. (Italian) **89b:11068**

Iosifescu, Marius Mixing properties for f-expansions: the bounded p-variation case. **89b:11069**

— Mixing properties for f-expansions. **89d:11061**

Ito, Shunji (*with* Nakada, Hitoshi) Approximations of real numbers by the sequence $\{n\alpha\}$ and their metrical theory. **89i:11092**

Mossé, Brigitte Mesures spectrales q-adiques de suites arithmétiques. (English summary) [q-adic spectral measures of arithmetic sequences] **89j:11080**

Nakada, Hitoshi *see* **Ito, Shunji, 89i:11092**

Spătaru, Aurel Equivalent expansions for real numbers. **89e:11048**

Yavid, K. Yu. An estimate for the Hausdorff dimension of a set of singular vectors. (Russian. English summary) **89a:11082**

Items with secondary classifications in 11K55

Allouche, Jean-Paul (*with* Deshouillers, Jean-Marc) Répartition de la suite des puissances d'une série formelle algébrique. (English summary) [Distribution of the sequence of powers of a formal algebraic series] **89i:11088**

Amoroso, Francesco On the distribution of complex numbers according to their transcendence types. (Italian summary) **89i:11078**

Artuso, Roberto (*with* Cvitanović, Predrag; Kenny, Brian G.) Phase transitions on strange irrational sets. **89k:28003**

Bertrand-Mathis, Anne Points génériques de Champernowne sur certains systèmes codes; application aux θ-shifts. (English summary) [Champernowne's generic points on certain code systems; application to θ-shifts] **89d:94032**

Breton, Pierre *see* **Tremblay, André-Marie Séguin; et al., 89b:82067**

Coquet, Jean (*with* Liardet, Pierre) A metric study involving independent sequences. **89e:11043**

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Dikmen, Murat Some remarks on a problem of ergodicity. (Turkish summary) **89e:28026**

Eigen, Stanley (*with* Hajian, Arshag) Poincaré sequences in infinite measure spaces and complementing subsets of the integers. **89i:28009**

Fourcade, Bertrand *see* **Tremblay, André-Marie Séguin; et al., 89b:82067**

Gutzwiller, Martin C. (*with* Mandelbrot, B. B.) Invariant multifractal measures in chaotic Hamiltonian systems, and related structures. **89b:58134**

Haight, J. A. An F_σ semigroup of zero measure which contains a translate of every countable set. **89b:11014**

Hajian, Arshag *see* **Eigen, Stanley, 89i:28009**

Ito, Shunji *see* **Mizutani, Masahiro, 89c:58070**

Kenny, Brian G. *see* **Artuso, Roberto; et al., 89k:28003**

Körner, T. W. Recurrence without uniform recurrence. **89b:54046**

Liardet, Pierre *see* **Coquet, Jean, 89e:11043**

Mandelbrot, B. B. *see* **Gutzwiller, Martin C., 89b:58134**

Mizutani, Masahiro (*with* Ito, Shunji) Dynamical systems on dragon domains. **89c:58070**

Pereverzeva, N. A. A lower bound for the Hausdorff dimension of some sets of the Euclidean plane. (Russian. English summary) **89d:11062**

Schneider, Rudolf Capacity of sets and uniform distribution of sequences. **89f:11108**

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11K60 Diophantine approximation [see also 11Jxx]

Kovalevskaya, È. I. Strongly jointly extremal manifolds. (Russian. English summary) **89c:11123**

Items with secondary classifications in 11K60

Belotserkovskiĭ, Yu. F. Uniform distribution of algebraic numbers near the unit circle. (Russian. English summary) **89f:11110**

Ito, Shunji (*with* Nakada, Hitoshi) Approximations of real numbers by the sequence $\{n\alpha\}$ and their metrical theory. **89i:11092**

Nakada, Hitoshi *see* **Ito, Shunji, 89i:11092**

11K65 Arithmetic functions [see also 11Nxx]

Bareĭkis, G. (*with* Šiaulys, Jonas V.) Probabilities of moderate deviations for additive functions. **89j:11081**

De Koninck, J.-M. (*with* Galambos, Janos) Some randomly selected arithmetical sums. **89k:11068**

Delange, Hubert Sur les moments des fonctions additives. [On the moments of additive functions] **89h:11048**

Elliott, P. D. T. A. A local Turán-Kubilius inequality. **89c:11124**

— Additive arithmetic functions on intervals. **89a:11083**

— A localized Erdős-Wintner theorem. **89m:11074**

Galambos, Janos *see* **De Koninck, J.-M., 89k:11068**

Hildebrand, Adolf (*with* Schwarz, Wolfgang Karl; Spilker, Jürgen) Still another proof of Parseval's equation for almost-even arithmetical functions. **89h:11049**

Kubilius, Jonas On some inequalities in the probabilistic number theory. **89c:11125**

Manstavičius, Eugenijus Sums of additive arithmetic functions with shifted arguments. (Russian) **89k:11069**

Mauclaire, Jean-Loup Multiplicative number theory in probability spaces: an example. **89c:11126**

Montgomery, Hugh L. (*with* Odlyzko, A. M.) Large deviations of sums of independent random variables. **89m:11075**

Odlyzko, A. M. *see* **Montgomery, Hugh L., 89m:11075**

Orlov, I. N. Estimates in integral distribution laws and algebraic number fields. (Russian. English and Lithuanian summaries) **89i:11093**

Pereverzeva, N. A. A lower bound for the Hausdorff dimension of some sets of the Euclidean plane. (Russian. English summary) **89d:11062**

van Rossum-Wijsmuller, Marijke A variant of Kátai's minimax theorem for additive functions. **89f:11115**

Schwarz, Wolfgang Karl *see* **Hildebrand, Adolf; et al., 89h:11049**

Šiaulys, Jonas V. Compactness of distributions of a sequence of additive functions. (Russian. English and Lithuanian summaries) **89a:11084**

— *see also* **Bareĭkis, G., 89j:11081** *and* **Stakėnas, V., 89m:11076**

Spilker, Jürgen *see* **Hildebrand, Adolf; et al., 89h:11049**

Stakėnas, V. (*with* Šiaulys, Jonas V.) Distributions of values of additive functions of a rational argument. **89m:11076**

Stepanauskas, G. A remark on a theorem of G. Halász. (Russian. English and Lithuanian summaries) **89a:11085**

Vose, Michael D. The distribution of divisors of $N!$. **89j:11082**

Items with secondary classifications in 11K65

Balazard, Michel Sur certaines fonctions additives. [On certain additive functions] **89g:11082**

Chariev, U. *see* **Levin, B. V., 89b:45008**

Elliott, P. D. T. A. The norms of compositions of arithmetic operators. **89e:11057**

— (*with* Sárközy, András) The distribution of the number of prime divisors of sums $a+b$. **89f:11134**

Galambos, Janos (*with* Kátai, I.) The gaps in a particular sequence of integers of positive density. **89f:11135**
Kátai, I. Uniform distribution of sequences connected with arithmetical functions. **89i:11086**
— *see also* **Galambos, Janos, 89f:11135**
Levin, B. V. (*with* Chariev, U.) Behavior of the solutions of some integro-difference equations. (Russian. Tajiki summary) **89b:45008**
Manstavičius, Eugenijus An invariance principle for additive arithmetic functions. **89i:11094**
Mauclaire, Jean-Loup Integration and number theory. **89g:11096**
Sárközy, András *see* **Elliott, P. D. T. A., 89f:11134**
Tulyaganov, S. T. An integral limit theorem with an estimate for the rate of convergence for multiplicative functions on an arithmetic progression. (Russian) **89i:11109**

11K99 None of the above, but in this section

De Koninck, J.-M. (*with* Galambos, Janos) The intermediate prime divisors of integers. **89c:11127**
Froemke, Jon (*with* Grossman, Jerrold W.) An algebraic approach to some number-theoretic problems arising from paper-folding regular polygons. **89d:11063**
Galambos, Janos *see* **De Koninck, J.-M., 89c:11127**
Grossman, Jerrold W. *see* **Froemke, Jon, 89d:11063**
Manstavičius, Eugenijus An invariance principle for additive arithmetic functions. **89i:11094**

Items with secondary classifications in 11K99

Bollobás, B. (*with* Winkler, Peter M.) The longest chain among random points in Euclidean space. **89k:60011**
Helmberg, Gilbert On subsequences of normal sequences. **89g:11064**
Mikhaĭlov, A. V. The central limit theorem for a p-adic shift. I. (Russian) **89i:60053**
Winkler, Peter M. *see* **Bollobás, B., 89k:60011**

11Lxx Exponential sums and character sums

11L03 Trigonometric and exponential sums, general

Adolphson, Alan (*with* Sperber, Steven) Newton polyhedra and the degree of the L-function associated to an exponential sum. **89d:11064**
Arkhipov, G. I. (*with* Karatsuba, A. A.; Chubarikov, V. N.) ★ Теория кратных тригонометрических сумм. (Russian) [Theory of multiple trigonometric sums] **89h:11050**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 89h:11050**
Jutila, M. ★ Lectures on a method in the theory of exponential sums. **89g:11069**
Kanemitsu, Shigeru On an exponential sum. I. **89g:11070**
Karatsuba, A. A. *see* **Arkhipov, G. I.; et al., 89h:11050**
Livné, Ron The average distribution of cubic exponential sums. **89f:11116**
(Ramanujan, Srinivasa) *see* **Subbarao, M. V., (89m:01070)**
Shao, Pin Zong Estimates for a class of hypercomplete trigonometric sums. (Chinese) (Not in MR)
Sperber, Steven *see* **Adolphson, Alan, 89d:11064**
Subbarao, M. V. Remarks on some aspects of Ramanujan's work. (*see* **89m:01070**)

Items with secondary classifications in 11L03

Arkhipov, G. I. (*with* Chubarikov, V. N.) On some summation formulas. (Russian) **89a:11008**
Bombieri, Enrico (*with* Taylor, Jean E.) Quasicrystals, tilings, and algebraic number theory: some preliminary connections. **89a:82031**
Brown, Gavin (*with* Wilson, David C.) Trigonometric sums and polynomial zeros. **89h:42002**
Chubarikov, V. N. *see* **Arkhipov, G. I., 89a:11008**
Coutsias, Evangelos A. *see* **Kazarinoff, Nicholas D., 89d:58084**
Jia, Chao Hua The square-full integers in short intervals. (Chinese) **89e:11053**
Katz, Nicholas M. On a certain class of exponential sums. **89c:14030**
Kazarinoff, Nicholas D. (*with* Coutsias, Evangelos A.) On Cornu spirals. Disorder, self-similarity, and Jacobi's $\theta_3(v,\tau)$. **89d:58084**
Taylor, Jean E. *see* **Bombieri, Enrico, 89a:82031**
Vági, Stephen On the summation formula of Lipschitz. (Serbo-Croatian summary) **89i:42013**
Vaughan, R. C. The L^1 mean of exponential sums over primes. **89e:11049**
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11L05 Gauss and Kloosterman sums; generalizations

Hajela, D. (*with* Pollington, Andrew D.; Smith, Brent Pendleton) On Kloosterman sums with oscillating coefficients. **89d:11065**
Ito, Hiroshi On a problem of Yamamoto concerning biquadratic Gauss sums. II. **89k:11070**
Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques: une conjecture de Pierre Conner. [Gauss sums associated with quadratic characters: a conjecture of Pierre Conner] **89c:11128**
Miki, Hiroo On the l-adic expansion of certain Gauss sums and its applications. **89k:11071**
Pollington, Andrew D. *see* **Hajela, D.; et al., 89d:11065**
Smith, Brent Pendleton *see* **Hajela, D.; et al., 89d:11065**
Vardi, Ilan A relation between Dedekind sums and Kloosterman sums. **89d:11066**

Items with secondary classifications in 11L05

Balog, A. (*with* Friedlander, J. B.; Pintz, János) Large prime factors of integers in an arithmetic progression. **89c:11144**
Berry, M. V. (*with* Goldberg, Joel Hart) Renormalisation of curlicues. **89b:58105**
Bump, Daniel (*with* Friedberg, Solomon; Goldfeld, Dorian) Poincaré series and Kloosterman sums for SL(3, Z). **89j:11047**
Coleman, Robert F. The Gross-Koblitz formula. **89e:11073**
Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Séries de Poincaré, sommes de Kloosterman et valeurs propres du laplacien pour les groupes de congruence agissant sur un espace hyperbolique. (French summary) [Poincaré series, Kloosterman sums and eigenvalues of the Laplacian for congruence groups acting on hyperbolic spaces] **89c:11086**
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Goldfeld, Dorian Kloosterman zeta functions for GL(n, Z). **89k:11039**
— *see also* **Bump, Daniel; et al., 89j:11047**
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Hironaka, Yumiko On a denominator of Kitaoka's power series attached to local densities. **89m:11038**
Iwaniec, H. On Waldspurger's theorem. **89m:11044**
Katz, Nicholas M. On a certain class of exponential sums. **89c:14030**
Lachaud, Gilles (*with* Wolfmann, Jacques) Sommes de Kloosterman, courbes elliptiques et codes cycliques en caractéristique 2. (English summary) [Kloosterman sums, elliptic curves and cyclic codes in characteristic 2] **89c:14031**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89c:11086**
Oskolkov, K. I. Properties of a class of I. M. Vinogradov series. **89f:11117**
Patterson, S. J. Metaplectic forms and Gauss sums. I. **89f:11070**
Pinch, R. G. E. Galois module structure of elliptic functions. **89i:11122**
Pintz, János *see* **Balog, A.; et al., 89c:11144**
Thakur, Dinesh S. Gauss sums for $\mathbf{F}_q[T]$. **89i:11127**
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11L10 Jacobsthal and Brewer sums; other complete character sums

Items with secondary classifications in 11L10

Coleman, Robert F. (*with* McCallum, William) Stable reduction of Fermat curves and Jacobi sum Hecke characters. **89h:11026**
McCallum, William *see* **Coleman, Robert F., 89h:11026**

11L15 Weyl sums

Podsypanin, E. V. Upper bounds for a trigonometric sum. (Russian) **89h:11051**

Items with secondary classifications in 11L15

Arkhipov, G. I. (*with* Karatsuba, A. A.; Chubarikov, V. N.) ★ Теория кратных тригонометрических сумм. (Russian) [Theory of multiple trigonometric sums] **89h:11050**
Bourgain, J. On pointwise ergodic theorems for arithmetic sets. (French summary) **89c:28018**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 89h:11050**
Karatsuba, A. A. *see* **Arkhipov, G. I.; et al., 89h:11050**

11L20 Sums over primes

Arkhipov, G. I. (*with* Karatsuba, A. A.) Distribution of pairs of residues and nonresidues of special form. **89c:11129**
Vaughan, R. C. The L^1 mean of exponential sums over primes. **89e:11049**

Items with secondary classifications in 11L20

Mercier, Armel Comportement asymptotique de $\sum_{p\leq x} p^a\{\frac{x}{p}\}^k$. (English summary) [Asymptotic behavior of $\sum_{p\leq x} p^a\{\frac{x}{p}\}^k$] **89a:11096**

11L40 Estimates on exponential sums and character sums

Bassalygo, L. A. (*with* Zinov'ev, V. A.; Litsyn, S. N.) A lower bound for complete trigonometric sums in terms of multiple sums. **89g:11071**
Burgess, D. A. Mean values of character sums. II. **89g:11072**
— On a set of congruences related to character sums. **89g:11073**
Chalk, J. H. H. On incomplete character sums to a prime-power modulus. **89b:11070**
— On Hua's estimates for exponential sums. **89d:11067**
Hildebrand, Adolf On the constant in the Pólya-Vinogradov inequality. **89k:11072**
— Large values of character sums. **89k:11073**
Hong, Yi *see* **Zhang, Ming Yao, 89d:11068**
Illusie, L. Deligne's l-adic Fourier transform. **89h:11052**
Kamilov, M. Kh. Estimates for double trigonometric sums. (Russian. Tajiki summary) **89g:11074**
Litsyn, S. N. *see* **Bassalygo, L. A.; et al., 89g:11071**
Oskolkov, K. I. Properties of a class of I. M. Vinogradov series. **89f:11117**
Perel'muter, G. I. An estimate for a two-dimensional sum of Legendre symbols. (Russian) (*see* **89a:11006**)
Rogovskaya, N. N. (*with* Sokolinskiĭ, V. Z.) An estimate for multiple trigonometric sums with different intervals of summation. II. (Russian) **89f:11118**
Shao, Pin Zong Estimations for a class of supercomplete trigonometric sums. **89m:11077**
Sokolinskiĭ, V. Z. *see* **Rogovskaya, N. N., 89f:11118**
Warlimont, Richard Estimation of a character sum. **89c:11130**
Zhang, Ming Yao (*with* Hong, Yi) On the maximum modulus of complete trigonometric sums. **89d:11068**
Zinov'ev, V. A. *see* **Bassalygo, L. A.; et al., 89g:11071**

Items with secondary classifications in 11L40

Adolphson, Alan (*with* Sperber, Steven) p-adic estimates for exponential sums and the theorem of Chevalley-Warning. **89d:11112**

Bourgain, J. On pointwise ergodic theorems for arithmetic sets. (French summary) **89c:28018**

Heath-Brown, D. R. The fractional part of αn^k. **89k:11056**

Meurman, T. On exponential sums involving the Fourier coefficients of Maass wave forms. **89c:11070**

Moroz, B. Z. Estimates for character sums in number fields. **89g:11109**

Pétermann, Y.-F. S. Divisor problems and exponent pairs: on a conjecture by Chowla and Walum. **89i:11104**

Podsypanin, E. V. Upper bounds for a trigonometric sum. (Russian) **89h:11051**

Sperber, Steven *see* **Adolphson, Alan, 89d:11112**

Thakur, Dinesh S. Gauss sums for $\mathbf{F}_q[T]$. **89i:11127**

11L50 Real trigonometric inequalities

Items with secondary classifications in 11L50

Tyrygin, I. Ya. Inequalities of Turán type in some integral metrics. **89g:42002**

11L99 None of the above, but in this section

Freiman, G. (*with* Halberstam, H.) On a product of sines. **89d:11069**

Halberstam, H. *see* **Freiman, G., 89d:11069**

Items with secondary classifications in 11L99

Schreiber, Morris Sums of squares of trigonometric polynomials. **89h:11015**

11Mxx Zeta and L-functions: analytic theory

11M06 $\zeta(s)$ and $L(s,\chi)$

Balasubramanian, Ramachandran On the frequency of Titchmarsh's phenomenon for $\zeta(s)$. IV. **89k:11074**

— (*with* Ramachandra, K.) On the frequency of Titchmarsh's phenomenon for $\zeta(s)$. V. **89k:11075**

Bohman, Jan (*with* Fröberg, Carl-Erik) The Stieltjes function—definition and properties. **89i:11095**

Conrey, J. B. The fourth moment of derivatives of the Riemann zeta-function. **89e:11050**

Delange, Hubert Une remarque sur la dérivée logarithmique de la fonction zêta de Riemann. [A remark on the logarithmic derivative of the Riemann zeta function] **89d:11070**

Erëmin, A. Yu. (*with* Kaporin, I. E.; Kerimov, M. K.) Calculation of derivatives of the Riemann zeta function in a complex domain. (Russian) **89i:11096**

Fröberg, Carl-Erik *see* **Bohman, Jan, 89i:11095**

Goldston, D. A. On the function $S(T)$ in the theory of the Riemann zeta-function. **89a:11086**

Kaporin, I. E. *see* **Erëmin, A. Yu.; et al., 89i:11096**

Kerimov, M. K. *see* **Erëmin, A. Yu.; et al., 89i:11096**

Kiseleva, L. V. The number of zeros of the function $\zeta(s)$ on "almost all" short intervals of the critical line. **89i:11097**

Kueh, Ka-Lam The moments of infinite series. **89c:11131**

Laurinčikas, Antanas A limit theorem for the Riemann zeta-function on the critical line. II. (Russian. English and Lithuanian summaries) **89d:11071**

— A limit theorem for Dirichlet L-functions on the critical line. (Russian. English and Lithuanian summaries) **89f:11119**

— A limit theorem for the Riemann zeta function near the critical line. **89c:11132**

Nakajima, Masumi The Taylor coefficients of $\zeta(s)$, $(s-1)\zeta(s)$ and $(z/(1-z))\zeta(1/(1-z))$. **89f:11120**

— The Taylor coefficients of some Dirichlet series. **89h:11053**

Narlikar, M. J. Hybrid mean square of L-functions. **89m:11078**

Odlyzko, A. M. (*with* Schönhage, Arnold) Fast algorithms for multiple evaluations of the Riemann zeta function. **89j:11083**

Patterson, S. J. ★ An introduction to the theory of the Riemann zeta-function. **89d:11072**

Ramachandra, K. (*with* Sankaranarayanan, Ayyadurai) A remark on $\zeta(2n)$. **89a:11087**

— *see also* **Balasubramanian, Ramachandran, 89k:11075**

Sankaranarayanan, Ayyadurai *see* **Ramachandra, K., 89a:11087**

Schönhage, Arnold *see* **Odlyzko, A. M., 89j:11083**

Srivastava, Hari M. Some infinite series associated with the Riemann zeta function. **89b:11071**

Sun, Ge A new proof of a summation formula for $\zeta(2m)$. (Chinese. English summary) **89k:11076**

Voronin, S. M. Ω-theorems of the theory of the Riemann zeta-function. **89h:11054**

— Lower bounds in Riemann zeta-function theory. **89j:11084**

Zárate Azcuna, María José A note on L-functions. (Spanish. English summary) **89j:11085**

Items with secondary classifications in 11M06

Codecà, P. (*with* Perelli, Alberto) On the uniform distribution (mod 1) of the Farey fractions and l^p spaces. **89b:11065**

Conrey, J. B. At least two fifths of the zeros of the Riemann zeta function are on the critical line. **89k:11077**

Córdoba, Antonio ★ Lecciones de teoría de los números. (Spanish) [Lessons in number theory] **89b:11001**

Iwaniec, H. (*with* Mozzochi, C. J.) On the divisor and circle problems. **89g:11091**

Jutila, M. ★ Lectures on a method in the theory of exponential sums. **89g:11069**

Mozzochi, C. J. *see* **Iwaniec, H., 89g:11091**

Odlyzko, A. M. New analytic algorithms in number theory. **89d:11117**

Perelli, Alberto *see* **Codecà, P., 89b:11065**

Peretti, A. The irrationality of Euler's constant. **89f:11098**

Pezzoli, Giannantonio On the Riemann $\zeta(n)$ function and the sum of harmonic series. (Italian) **89i:11016**

Srivastava, Hari M. Sums of certain series of the Riemann zeta function. **89i:11009**

11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

Nair, Mohan (*with* Perelli, Alberto) Sieve methods and class-number problems. II. **89h:11055**

Perelli, Alberto *see* **Nair, Mohan, 89h:11055**

Slavut·skiĭ, I. Sh. L-functions and the class number of cyclotomic fields. (Russian) **89m:11079**

Items with secondary classifications in 11M20

Ito, Hiroshi On a problem of Yamamoto concerning biquadratic Gauss sums. II. **89k:11070**

Purdy, George (*with* Terras, R.; Terras, Audrey; Williams, Hugh Cowie) Graphing L-functions of Kronecker symbols in the real part of the critical strip. **89k:11111**

Terras, Audrey *see* **Purdy, George; et al., 89k:11111**

Terras, R. *see* **Purdy, George; et al., 89k:11111**

Williams, Hugh Cowie *see* **Purdy, George; et al., 89k:11111**

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Bagchi, Bhaskar Recurrence in topological dynamics and the Riemann hypothesis. **89b:11072**

Cohen, Alan Max Some computations relating to the Riemann zeta function. **89j:11086**

Conrey, J. B. (*with* Ghosh, Amit; Gonek, S. M.) Simple zeros of zeta functions. **89h:11056**

— At least two fifths of the zeros of the Riemann zeta function are on the critical line. **89k:11077**

Fryska, Tadeusz L. Some effective estimates for the roots of the Dirichlet L-series. II. **89m:11080**

Ghosh, Amit *see* **Conrey, J. B.; et al., 89h:11056**

Goldston, D. A. On the pair correlation conjecture for zeros of the Riemann zeta-function. **89c:11133**

Gonek, S. M. *see* **Conrey, J. B.; et al., 89h:11056**

Ivić, Aleksandar Les zéros de la fonction zêta de Riemann sur la droite critique. [The zeros of the Riemann zeta function on the critical line] (*see* **89b:11004**)

— (*with* Jutila, M.) Gaps between consecutive zeros of the Riemann zeta-function on the critical line. **89c:11134**

Jutila, M. *see* **Ivić, Aleksandar, 89c:11134**

Kiseleva, L. V. Distribution of the zeros of the function $\zeta(s)$ in a neighborhood of the critical line. **89c:11135**

Mo, Guo Duan A criterion for a half-plane to be free from zeros of the Riemann zeta function. (Chinese. English summary) **89f:11121**

Motohashi, Yoichi Zeros of $L(s,\chi)$ in short segments on the critical line. **89i:11098**

Pintz, János Elementary methods in the theory of L-functions. IX. Density theorems. **89m:11081**

Zhang, Wen Peng On the density of zeros of the Dirichlet L-function. (Chinese) **89m:11082**

Items with secondary classifications in 11M26

Barrett, Wayne W. (*with* Forcade, Rodney W.; Pollington, Andrew D.) On the spectral radius of a $(0,1)$ matrix related to Mertens' function. **89j:15029**

Brown, Gavin (*with* Wilson, David C.) Trigonometric sums and polynomial zeros. **89h:42002**

Csordas, G. (*with* Varga, Richard) Moment inequalities and the Riemann hypothesis. **89f:30010**

Forcade, Rodney W. *see* **Barrett, Wayne W.; et al., 89j:15029**

Nowak, Werner Georg (*with* Schmeier, Michael) Conditional asymptotic formulae for a class of arithmetic functions. **89f:11130**

Odlyzko, A. M. (*with* Schönhage, Arnold) Fast algorithms for multiple evaluations of the Riemann zeta function. **89j:11083**

Pollington, Andrew D. *see* **Barrett, Wayne W.; et al., 89j:15029**

Schmeier, Michael *see* **Nowak, Werner Georg, 89f:11130**

Schönhage, Arnold *see* **Odlyzko, A. M., 89j:11083**

Varga, Richard *see* **Csordas, G., 89f:30010**

Wilson, David C. *see* **Brown, Gavin, 89h:42002**

11M35 Hurwitz and Lerch zeta functions

Moiseev, A. I. Calculation of some functions connected with the Hurwitz zeta-function. (Russian) **89j:11087**

Items with secondary classifications in 11M35

Srivastava, Hari M. Some infinite series associated with the Riemann zeta function. **89b:11071**

11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F70, 11F72.}

Bombieri, Enrico (*with* Hejhal, Dennis A.) On the zeros of Epstein zeta functions. (French summary) **89c:11136**

Chernov, V. M. A class of Dirichlet series with a finite Lindelöf function. (Russian) (*see* **89a:11006**)

Conrey, J. B. (*with* Ghosh, Amit) Simple zeros of the Ramanujan τ-Dirichlet series. **89k:11078**

Fryska, Tadeusz L. An estimate of the order of the Hecke-Landau $\zeta(s,\chi)$-functions. **89k:11079**

Fujii, Akio Arithmetic of some zeta function connected with the eigenvalues of the Laplace-Beltrami operator. **89m:11083**

Ghosh, Amit *see* **Conrey, J. B., 89k:11078**

Grunewald, Fritz J. (*with* Segal, Daniel; Smith, Geoff C.) Subgroups of finite index in nilpotent groups. **89m:11084**

Hejhal, Dennis A. *see* **Bombieri, Enrico, 89c:11136**

Müller, Helmut A. On generalized zeta-functions at negative integers. **89h:11057**

Segal, Daniel *see* **Grunewald, Fritz J.; et al., 89m:11084**

Sivaramakrishnan, R. Certain identities involving Dirichlet series. **89h:11058**

Smith, Geoff C. *see* **Grunewald, Fritz J.; et al., 89m:11084**

Soundararajan, T. Dirichlet series. (*see* **89m:01070**)

Vardi, Ilan Integrals, an introduction to analytic number theory. **89b:11073**

Zakharov, S. A. Analytic continuation of a Dirichlet series. (Russian) **89c:11137**

Items with secondary classifications in 11M41

Abouzahra, M. (*with* Lewin, L.; Xiao, Hong Nian) Polylogarithms in the field of omega (a root of a given cubic): functional equations and ladders. **89j:30033**

— (*with* Lewin, L.; Xiao, Hong Nian) Addendum: "Polylogarithms in the field of omega (a root of a given cubic): functional equations and ladders" [Aequationes Math. 33 (1987), no. 1, 23–45; MR 89j:30033]. **89j:30034**

Arakawa, Tsuneo Dirichlet series $\sum_{n=1}^{\infty} \cot \pi n\alpha/n^s$, Dedekind sums, and Hecke L-functions for real quadratic fields. **89i:11124**

Balakrishnan, U. Laurent expansion of Dirichlet series. II. **89a:30001**

Cherif, Habib (*with* de Mathan, Bernard) Mesure d'irrationalité de la valeur en 1 de la fonction zeta de Carlitz, relative à $\mathbf{F}_2(\mathrm{T})$. (English summary) [An irrationality measure of the Carlitz zeta function for $\mathbf{F}_2(\mathrm{T})$ at 1] **89b:11093**

Damamme, Gilles (*with* Hellegouarch, Yves) Propriétés de transcendance des valeurs de la fonction zéta de Carlitz. (English summary) [Transcendence properties of the values of Carlitz's zeta function] **89k:11115**

Duke, W. Fourth moments of L-functions attached to newforms. **89i:11060**

Erēmin, A. Yu. (*with* Kaporin, I. E.; Kerimov, M. K.) Calculation of derivatives of the Riemann zeta function in a complex domain. (Russian) **89i:11096**

Hejhal, Dennis A. Zeros of Epstein zeta functions and supercomputers. **89g:11128**

Hellegouarch, Yves *see* **Damamme, Gilles, 89k:11115**

Igusa, Jun-ichi Zeta distributions associated with some invariants. **89h:11075**

— On the arithmetic of a singular invariant. **89g:11116**

Ivić, Aleksandar Sums of products of certain arithmetical functions. **89g:11084**

Joyner, David Summation operators and "explicit formulas". **89a:11120**

Kaporin, I. E. *see* **Erēmin, A. Yu.; et al., 89i:11096**

Katsuda, Atsushi Density theorems for closed orbits. **89j:58066**

Kerimov, M. K. *see* **Erēmin, A. Yu.; et al., 89i:11096**

Kurokawa, Nobushige String theories and prime number theories. **89j:58110**

— Parabolic components of zeta functions. **89m:11052**

Lachaud, Gilles On real quadratic fields. **89d:11028**

Lewin, L. *see* **Abouzahra, M.; et al., 89j:30033** *and* **89j:30034**

Lichtin, Ben Generalized Dirichlet series and b-functions. **89d:32030**

Mahler, K. On two analytic functions. **89f:30006**

Maknys, M. K. Even moments of Hecke Z-functions. (Russian) **89h:11072**

Maksudova, M. K. (*with* Shushbaev, S. Sh.) A method for estimating the remainder term of the Epstein zeta-function. (Russian) **89g:11034**

de Mathan, Bernard *see* **Cherif, Habib, 89b:11093**

Nakajima, Masumi The Taylor coefficients of some Dirichlet series. **89h:11053**

Nowak, Werner Georg (*with* Schmeier, Michael) Conditional asymptotic formulae for a class of arithmetic functions. **89f:11130**

Sands, Jonathan W. Stark's conjecture and abelian L-functions with higher order zeros at $s=0$. **89g:11110**

Schmeier, Michael *see* **Nowak, Werner Georg, 89f:11130**

Shushbaev, S. Sh. *see* **Maksudova, M. K., 89g:11034**

Voros, A. Unstable periodic orbits and semiclassical quantisation. **89h:81071**

Xiao, Hong Nian *see* **Abouzahra, M.; et al., 89j:30033** *and* **89j:30034**

11M45 Tauberian theorems

Items with secondary classifications in 11M45

Aramaki, Junichi On an extension of the Ikehara Tauberian theorem. **89h:47026**

Elistratov, I. V. Some problems in the theory of summation of multiplicative functions. (Russian) (*see* **89a:11006**)

Marenich, E. E. Summation of the values of arithmetic functions of a certain class. (Russian) (*see* **89a:11006**)

11M51 Turán theory [See mainly 11N30]

Items with secondary classifications in 11M51

Balakrishnan, U. Laurent expansion of Dirichlet series. II. **89a:30001**

Csordas, G. (*with* Varga, Richard) Moment inequalities and the Riemann hypothesis. **89f:30010**

Varga, Richard *see* **Csordas, G., 89f:30010**

11M99 None of the above, but in this section

Matsumoto, Kohji (*with* Miyazaki, Tetsuro) On some hypersurfaces of high-dimensional tori related with the Riemann zeta-function. **89c:11138**

Miyazaki, Tetsuro *see* **Matsumoto, Kohji, 89c:11138**

Items with secondary classifications in 11M99

Heath-Brown, D. R. van der Corput bounds for the Dedekind zeta-function. (*see* **89b:11004**)

11Nxx Multiplicative number theory

Items with secondary classifications in 11Nxx

Córdoba, Antonio ★ Lecciones de teoría de los números. (Spanish) [Lessons in number theory] **89b:11001**

(Elliott, P. D. T. A.) *see* **Postnikov, A. G., 89a:11001**

Ivić, Aleksandar Survey of new results in analytic number theory. (Serbo-Croatian) (Not in MR)

(Kandall, G. A.) *see* **Postnikov, A. G., 89a:11001**

Postnikov, A. G. ★ Introduction to analytic number theory. **89a:11001**

(Silver, Ben) *see* **Postnikov, A. G., 89a:11001**

11N05 Distribution of primes

Balazard, Michel (*with* Delange, Hubert; Nicolas, J.-L.) Sur le nombre de facteurs premiers des entiers. (English summary) [On the number of prime factors of integers] **89f:11122**

Cheer, A. Y. (*with* Goldston, D. A.) Longer than average intervals containing no primes. **89d:11073**

Delange, Hubert *see* **Balazard, Michel; et al., 89f:11122**

Ehrhart, Eugene On prime numbers. **89f:11123**

Goldston, D. A. *see* **Cheer, A. Y., 89d:11073**

Grant, Andrew Fourier transforms and the P.N.T. error term. (Russian and Czech summaries) **89c:11139**

— A further note on the P.N.T. error term. (Russian and Czech summaries) **89c:11140**

Guo, Bao Wen On Artin's conjecture. (Chinese) **89m:11085**

Heath-Brown, D. R. The number of primes in a short interval. **89i:11099**

— Differences between consecutive primes. **89i:11100**

Hildebrand, Adolf (*with* Maier, Helmut) Gaps between prime numbers. **89k:11080**

Indlekofer, Karl-Heinz (*with* Kátai, I.) B-numbers in short intervals. **89f:11124**

Jia, Chao Hua A generalization of a theorem on prime numbers. (Chinese. English summary) **89a:11088**

Kaczorowski, J. On sign-changes in the remainder-term of the prime-number formula. III. **89d:11074**

— On sign-changes in the remainder-term of the prime-number formula. IV. **89k:11081**

Kátai, I. *see* **Indlekofer, Karl-Heinz, 89f:11124**

Maier, Helmut *see* **Hildebrand, Adolf, 89k:11080**

Murata, Léo The distribution of primes satisfying the condition $a^{p-1} \equiv 1 (\operatorname{mod} p^2)$. (*see* **89k:11001**)

Nicolas, J.-L. *see* **Balazard, Michel; et al., 89f:11122**

Peretti, A. On the twin prime problem. **89e:11051**

Ribenboim, Paulo ★ The book of prime number records. **89e:11052**

Ryzhova, N. P. Order estimates in the generalized Titchmarch problem. (Russian) (*see* **89f:11004**)

Selberg, Sigmund On the number of natural numbers $\leq x$ containing no isolated prime factors. (Norwegian. English summary) **89c:11141**

Too, Yeu-Hua On the number of primes between two function-values $f(n)$ and $f(n+1)$. **89m:11086**

Turganaliev, R. T. *see* **Voronin, S. M., 89k:11082**

Voronin, S. M. (*with* Turganaliev, R. T.) Prime numbers in quasiprogressions. (Russian) **89k:11082**

Items with secondary classifications in 11N05

Faĭnleĭb, A. S. *see* **Tulyaganova, M. I., 89m:11064**

Győry, K. (*with* Stewart, C. L.; Tijdeman, R.) On prime factors of sums of integers. III. **89g:11094**

Odlyzko, A. M. New analytic algorithms in number theory. **89d:11117**

Patterson, S. J. ★ An introduction to the theory of the Riemann zeta-function. **89d:11072**

Sampath, A. *see* **Srinivasan, B. R., 89b:11011**

Srinivasan, B. R. (*with* Sampath, A.) A combinatorial proof of the generalised Selberg's identity. **89b:11011**

Stewart, C. L. *see* **Győry, K.; et al., 89g:11094**

Tijdeman, R. *see* **Győry, K.; et al., 89g:11094**

Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Asymptotic expansion of the density functions for prime vectors in integer lattices. (Russian) **89m:11064**

11N13 Primes in progressions [see also 11B25]

Bombieri, Enrico (*with* Friedlander, J. B.; Iwaniec, H.) Primes in arithmetic progressions to large moduli. III. **89m:11087**

Fouvry, Étienne Autour du théorème de Bombieri-Vinogradov. II. [On the Bombieri-Vinogradov theorem. II] **89g:11075**

Friedlander, J. B. On the Bombieri-Vinogradov theorem. **89d:11075**

— *see also* **Bombieri, Enrico; et al., 89m:11087**

Iwaniec, H. *see* **Bombieri, Enrico; et al., 89m:11087**

Özlük, A. Erhan On the irregularity of distribution of primes in an arithmetic progression over "short" intervals. (Turkish summary) **89a:11089**

Rakhmonov, Z. Kh. The least Goldbach number in an arithmetic progression. (Russian. Tajiki summary) **89c:11142**

Robin, G. Irrégularités dans la distribution des nombres premiers dans les progressions arithmétiques. (English summary) [Irregularities in the distribution of primes in arithmetical progressions] **89c:11143**

Rousselet, Bruno Inégalités de type Brun-Titchmarsh en moyenne. [Inequalities in mean of Brun-Titchmarsh type] **89g:11076**

11N25 Distribution of integers with specified multiplicative constraints

Balasubramanian, Ramachandran (*with* Ramachandra, K.; Subbarao, M. V.) On the error function in the asymptotic formula for the counting function of k-full numbers. **89g:11077**

Balog, A. (*with* Friedlander, J. B.; Pintz, János) Large prime factors of integers in an arithmetic progression. **89c:11144**
Erdős, Paul (*with* Mays, Michael E.) On nilpotent but not abelian groups and abelian but not cyclic groups. **89d:11080**
Filaseta, Michael An elementary approach to short interval results for k-free numbers. **89k:11083**
Friedlander, J. B. *see* **Balog, A.; et al., 89c:11144**
Gafurov, N. The mean value of an arithmetic function. (Russian. Tajiki summary) **89d:11076**
Goldston, D. A. (*with* McCurley, Kevin S.) Sieving the positive integers by large primes. **89d:11077**
Hafner, James Lee New omega results in a weighted divisor problem. **89g:11078**
Hall, R. R. The propinquity of divisors. **89d:11078**
Hildebrand, Adolf On the number of prime factors of an integer. **89f:11125**
— (*with* Tenenbaum, Gérald) On the number of prime factors of an integer. **89k:11084**
Jia, Chao Hua The square-full integers in short intervals. (Chinese) **89e:11053**
Mays, Michael E. *see* **Erdős, Paul, 89d:11080**
McCurley, Kevin S. *see* **Goldston, D. A., 89d:11077**
Murty, Maruti Ram Artin's conjecture for primitive roots. **89k:11085**
Naimi, Mongi Les entiers sans facteurs carré $\leq x$ dont leurs facteurs premiers $\leq y$. [The squarefree integers $\leq x$ whose prime factors are $\leq y$] **89h:11059**
Narlikar, M. J. (*with* Srinivasan, Seshadri) On orders solely of abelian groups. II. **89d:11079**
Pintz, János *see* **Balog, A.; et al., 89c:11144**
Ramachandra, K. *see* **Balasubramanian, Ramachandran; et al., 89g:11077**
Ribenboim, Paulo Remarks on exponential congruences and powerful numbers. **89k:11086**
Robin, G. Sur une famille de nombres hautement composés supérieurs. [On a family of large highly composite numbers] **89k:11087**
Srinivasan, Seshadri *see* **Narlikar, M. J., 89d:11079**
Subbarao, M. V. *see* **Balasubramanian, Ramachandran; et al., 89g:11077**
Tenenbaum, Gérald Un problème de probabilité conditionnelle en arithmétique. [A problem of conditional probability in arithmetic] **89d:11081**
— *see also* **Hildebrand, Adolf, 89k:11084**

Items with secondary classifications in 11N25

Alladi, Krishnaswami An Erdős-Kac theorem for integers without large prime factors. **89b:11077**
De Koninck, J.-M. (*with* Sitaramachandra Rao, R.) Sums involving the largest prime divisor of an integer. II. **89m:11090**
Erdős, Paul (*with* Ivić, Aleksandar; Pomerance, Carl) On sums involving reciprocals of the largest prime factor of an integer. **89a:11090**
Fouché, W. L. The distribution of Bernoulli numbers modulo primes. **89d:11011**
Inuzuka, Masaaki *see* **Kimura, Tatsuo; et al., 89k:11101**
Ivić, Aleksandar The distribution of quotients of small and large additive functions. (Italian summary) **89f:11128**
— *see also* **Erdős, Paul; et al., 89a:11090**
Kasai, S. *see* **Kimura, Tatsuo; et al., 89k:11101**
Kimura, Tatsuo (*with* Kasai, S.; Taguchi, Masanobu; Inuzuka, Masaaki) Some P.V.-equivalences and a classification of 2-simple prehomogeneous vector spaces of type II. **89k:11101**
Maier, Helmut (*with* Pomerance, Carl) On the number of distinct values of Euler's φ-function. **89d:11083**
Mikawa, Hiroshi The differences between consecutive almost-primes. **89i:11102**
Müller, Wolfgang^2 On the distribution of ideals in cubic number fields. **89k:11112**
Murata, Léo The distribution of primes satisfying the condition $a^{p-1} \equiv 1 (\operatorname{mod} p^2)$. (*see* **89k:11001**)
Pomerance, Carl *see* **Erdős, Paul; et al., 89a:11090** *and* **Maier, Helmut, 89d:11083**
Sitaramachandra Rao, R. *see* **De Koninck, J.-M., 89m:11090**
Taguchi, Masanobu *see* **Kimura, Tatsuo; et al., 89k:11101**

11N30 Turán theory

Tyrygin, I. Ya. Inequalities of P. Turán type in mixed integral metrics. (Russian) **89j:11088**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

Filaseta, Michael Prime values of irreducible polynomials. **89g:11079**
Shparlinskii, I. E. Residue classes modulo a prime in an algebraic number field. **89j:11089**

Items with secondary classifications in 11N32

Turganaliev, R. T. *see* **Voronin, S. M., 89k:11082**
Voronin, S. M. (*with* Turganaliev, R. T.) Prime numbers in quasiprogressions. (Russian) **89k:11082**

11N35 Sieves

Alladi, Krishnaswami Multiplicative functions and Brun's sieve. **89m:11088**
(Chubarikov, V. N.) *see* **Hooley, Christopher, 89c:11145**
Diamond, Harold G. (*with* Halberstam, H.; Richert, Hans-Egon) Combinatorial sieves of dimension exceeding one. **89g:11080**
Goldston, D. A. (*with* McCurley, Kevin S.) Sieving the positive integers by small primes. **89g:11081**
Grupp, Frieder (*with* Richert, Hans-Egon) Notes on functions connected with the sieve. **89i:11101**
Halberstam, H. *see* **Diamond, Harold G.; et al., 89g:11080**
Hooley, Christopher ★ Применения методов решета в теории чисел. (Russian) [Applications of sieve methods to the theory of numbers] **89c:11145**
McCurley, Kevin S. *see* **Goldston, D. A., 89g:11081**
Mikawa, Hiroshi The differences between consecutive almost-primes. **89i:11102**
Piyadina, Zh. V. The Halberstam conjecture and additive problems connected with it. (Russian) (*see* **89f:11004**)
Pomerance, Carl (*with* Sárközy, András; Stewart, C. L.) On divisors of sums of integers. III. **89j:11090**
Richert, Hans-Egon *see* **Diamond, Harold G.; et al., 89g:11080** *and* **Grupp, Frieder, 89i:11101**
Sárközy, András *see* **Pomerance, Carl; et al., 89j:11090**
Stewart, C. L. *see* **Pomerance, Carl; et al., 89j:11090**
Yagi, Akiko The large sieve in algebraic number fields. **89f:11126**
Yao, Qi On the upper bound of the number of primes in arithmetic progression. **89f:11127**

Items with secondary classifications in 11N35

Balog, A. (*with* Friedlander, J. B.; Pintz, János) Large prime factors of integers in an arithmetic progression. **89c:11144**
Erdős, Paul (*with* Mays, Michael E.) On nilpotent but not abelian groups and abelian but not cyclic groups. **89d:11080**
Friedlander, J. B. *see* **Balog, A.; et al., 89c:11144**
Grytczuk, Aleksandr The Halberstam-Richert type theorems for submultiplicative functions on arithmetical semigroups. **89c:11009**
Heath-Brown, D. R. The number of primes in a short interval. **89i:11099**
Indlekofer, Karl-Heinz (*with* Kátai, I.) B-numbers in short intervals. **89f:11124**
Kátai, I. *see* **Indlekofer, Karl-Heinz, 89f:11124**
Mays, Michael E. *see* **Erdős, Paul, 89d:11080**
Murty, Maruti Ram (*with* Saradha, N.) On the sieve of Eratosthenes. **89a:11099**
Nair, Mohan (*with* Perelli, Alberto) Sieve methods and class-number problems. II. **89h:11055**
Narlikar, M. J. (*with* Srinivasan, Seshadri) On orders solely of abelian groups. II. **89d:11079**
Perelli, Alberto *see* **Nair, Mohan, 89h:11055**
Pintz, János *see* **Balog, A.; et al., 89c:11144**
Ribenboim, Paulo Recent results about Fermat's last theorem. **89c:11046**
Rousselet, Bruno Inégalités de type Brun-Titchmarsh en moyenne. [Inequalities in mean of Brun-Titchmarsh type] **89g:11076**
Saradha, N. *see* **Murty, Maruti Ram, 89a:11099**
Srinivasan, Seshadri *see* **Narlikar, M. J., 89d:11079**
Xie, Sheng Gang On equation $ap - bP_2 = m$. **89f:11041**

11N37 Asymptotic results on arithmetic functions

Adhikari, S. D. (*with* Balasubramanian, Ramachandran; Sankaranarayanan, Ayyadurai) On an error term related to the greatest divisor of n, which is prime to k. **89m:11089**
Balasubramanian, Ramachandran *see* **Adhikari, S. D.; et al., 89m:11089**
Balazard, Michel Sur certaines fonctions additives. [On certain additive functions] **89g:11082**
Cohen, Henri (*with* Dress, F.) Estimations numériques du reste de la fonction sommatoire relative aux entiers sans facteur carré. [Numerical estimates of the remainder of the sum function relative to squarefree numbers] **89i:11103**
De Koninck, J.-M. (*with* Sitaramachandra Rao, R.) Sums involving the largest prime divisor of an integer. II. **89m:11090**
Deshouillers, Jean-Marc (*with* Dress, F.) Sommes de diviseurs et structure multiplicative des entiers. [Divisor sums and multiplicative structure of the integers] **89e:11054**
Dress, F. *see* **Deshouillers, Jean-Marc, 89e:11054** *and* **Cohen, Henri, 89i:11103**
Elliott, P. D. T. A. Multiplicative functions on arithmetic progressions. **89g:11083**
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— (*with* Indlekofer, Karl-Heinz) Multiplikative Funktionen auf kurzen Intervallen. [Multiplicative functions in short intervals] **89a:11091**
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— A method for the summation of arithmetic functions. II. (Russian. Tajiki summary) **89a:11094**
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— The general divisor problem. **89a:11095**
— Sums of products of certain arithmetical functions. **89g:11084**
— The distribution of quotients of small and large additive functions. (Italian summary) **89f:11128**
— *see also* **Erdős, Paul; et al., 89a:11090**
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Maier, Helmut (*with* Pomerance, Carl) On the number of distinct values of Euler's φ-function. **89d:11083**
Marenich, E. E. Summation of the values of arithmetic functions of a certain class. (Russian) (*see* **89a:11006**)
— Generalization of a theorem of W. Schwarz on the summation of values of arithmetic functions. (Russian) **89f:11129**
Martynenko, N. N. (*with* Polyanskii, A. A.) On the mean value of $r(n) \cdot r(n+1)$. (Russian) (*see* **89f:11004**)
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— Comportement asymptotique de $\sum_{p\leq x} p^a\{\frac{x}{p}\}^k$. (English summary) [Asymptotic behavior of $\sum_{p\leq x} p^a\{\frac{x}{p}\}^k$] **89a:11096**

Nowak, Werner Georg Zur Verteilung der quadratfreien Ideale in quadratischen Zahlkörpern. [On the distribution of squarefree ideals in quadratic number fields] **89j:11092**
— (*with* Schmeier, Michael) Conditional asymptotic formulae for a class of arithmetic functions. **89f:11130**
— *see also* **Mercier, Armel, 89c:11147**
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— Divisor problems and exponent pairs. **89g:11086**
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— Addendum: "An Ω-theorem for an error term related to the sum-of-divisors function" [Monatsh. Math. **103** (1987), no. 2, 145–157; MR 88e:11086]. **89g:11087**
— Existence of all the asymptotic λth means for certain arithmetical convolutions. **89k:11088**
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Rausch, Ulrich Geometrische Reihen in algebraischen Zahlkörpern. [Geometric series in algebraic number fields] **89b:11074**
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Ryzhova, N. P. Asymptotics in a binary problem on shifted prime numbers. (Russian) (*see* **89f:11004**)
Sabirov, P. (*with* Tulyaganov, S. T.) Asymptotics of the mean values of related multiplicative functions. (Russian) **89d:11085**
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— *see also* **Sabirov, P., 89d:11085**
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Bareikis, G. (*with* Šiaulys, Jonas V.) Probabilities of moderate deviations for additive functions. **89j:11081**
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Elliott, P. D. T. A. (*with* Sárközy, András) The distribution of the number of prime divisors of sums $a + b$. **89f:11134**
— Additive arithmetic functions on intervals. **89a:11083**
Erdős, Paul (*with* Hildebrand, Adolf; Odlyzko, A. M.; Pudaite, P.; Reznick, B.) The asymptotic behavior of a family of sequences. **89c:11024**
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Grinstead, Charles M. Cycle lengths in $A^k b$. **89j:15036**
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Hildebrand, Adolf On the number of prime factors of an integer. **89f:11125**
— (*with* Schwarz, Wolfgang Karl; Spilker, Jürgen) Still another proof of Parseval's equation for almost-even arithmetical functions. **89h:11049**
— *see also* **Erdős, Paul; et al., 89c:11024**
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— Integration and number theory. **89g:11096**
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Pomerance, Carl (*with* Sárközy, András; Stewart, C. L.) On divisors of sums of integers. III. **89j:11090**
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— Weak uniform distribution for divisor functions. II. **89m:11093**
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Tropak, Bogdan Some explicit estimates in algebraic number field. I. **89c:11167**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Asymptotic expansion of the density functions for prime vectors in integer lattices. (Russian) **89m:11064**

11N45 Asymptotic results on counting functions for algebraic and topological structures

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Liu, Hong Quan An asymptotic formula for $F_{2^a}(x)$. (Chinese) **89f:11132**
Massias, J.-P. (*with* Nicolas, J.-L.; Robin, G.) Évaluation asymptotique de l'ordre maximum d'un élément du groupe symétrique. [Asymptotic estimate of the maximum order of an element of the symmetric group] **89i:11108**
McIver, Annabelle (*with* Neumann, Peter M.) Enumerating finite groups. **89a:11097**
Moroz, B. Z. Equidistribution of Frobenius classes and the volumes of tubes. **89m:11092**
Murty, Maruti Ram (*with* Srinivasan, Seshadri) On the number of groups of squarefree order. **89b:11076**
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Items with secondary classifications in 11N45

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Jia, Chao Hua The distribution of squarefree numbers. (Chinese. English summary) **89h:11060**
Nicolas, J.-L. *see* **Dixmier, Jacques; et al., 89a:11040**

11N56 Rate of growth of arithmetic functions

MacLeod, R. A. Extreme values for divisor functions. **89g:11088**
Nowak, Werner Georg The Liouville function on square-full ideals in quadratic number fields. **89g:11089**
Yang, Zhao Hua A divisor problem in arithmetic progressions. (Chinese) **89f:11133**

Items with secondary classifications in 11N56

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McIver, Annabelle (*with* Neumann, Peter M.) Enumerating finite groups. **89a:11097**
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11N60 Distribution functions associated with additive and positive multiplicative functions

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Galambos, Janos (*with* Kátai, I.) The gaps in a particular sequence of integers of positive density. **89f:11135**
Hildebrand, Adolf Quantitative mean value theorems for nonnegative multiplicative functions. II. **89b:11078**
Indlekofer, Karl-Heinz Gleichgradige Summierbarkeit bei verallgemeinerten Momenten additiver Funktionen. [Uniform summability for generalized moments of additive functions] **89a:11098**

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Sárközy, András *see* **Elliott, P. D. T. A., 89f:11134**
Šiaulys, Jonas V. Integer-valued additive arithmetic functions and the Poisson distribution. **89k:11090**
Tenenbaum, Gérald Facteurs premiers de sommes d'entiers. [Prime factors of sums of integers] **89k:11091**
Tulyaganov, S. T. An integral limit theorem with an estimate for the rate of convergence for multiplicative functions on an arithmetic progression. (Russian) **89i:11109**

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Delange, Hubert Sur les moments des fonctions additives. [On the moments of additive functions] **89h:11048**
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Šiaulys, Jonas V. *see* **Stakėnas, V., 89m:11076**
Stakėnas, V. (*with* Šiaulys, Jonas V.) Distributions of values of additive functions of a rational argument. **89m:11076**
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11N64 Other results on the distribution of values or the characterization of arithmetic functions

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Elliott, P. D. T. A. The norms of compositions of arithmetic operators. **89e:11057**
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Murata, Léo (*with* Mauclaire, Jean-Loup) An explicit formula for the average of some q-additive functions. **89j:11094**
Plaksin, V. A. The order of $\omega(n)$ on short intervals. (Russian) **89j:11095**
Schwarz, Wolfgang Karl Ramanujan expansions of arithmetical functions. **89f:11136**
Shao, Pin Zong A note on the properties of the distribution of values of the arithmetical function $\sigma(x)\varphi(x)$. (Chinese) **89d:11086**
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Maier, Helmut (*with* Pomerance, Carl) On the number of distinct values of Euler's φ-function. **89d:11083**
Marenich, E. E. Summation of the values of arithmetic functions of a certain class. (Russian) (*see* **89a:11006**)
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Shparlinskiĭ, I. E. Residue classes modulo a prime in an algebraic number field. **89j:11089**

11N69 Distribution of integers in special residue classes

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Items with secondary classifications in 11N69

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Karatsuba, A. A. Distribution of pairs of residues and nonresidues of special form. **89c:11129**
Narkiewicz, W. Units in residue classes. **89k:11097**
Orlov, I. N. Estimates in integral distribution laws and algebraic number fields. (Russian. English and Lithuanian summaries) **89i:11093**

11N80 Generalized primes and integers

Mauclaire, Jean-Loup Sur la notion de fonction multiplicative et quelques problèmes qui lui sont associés. II. [On the notion of multiplicative function and some problems that are associated with it. II] **89a:11101**
Robin, G. Comportement asymptotique du produit des k premiers nombres premiers généralisés. [Asymptotic behavior of the product of the first k generalized primes] **89f:11137**
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11N99 None of the above, but in this section

Alladi, Krishnaswami An introduction to multiplicative number theory. **89i:11110a**
— Multiplicative arithmetical functions. **89i:11110b**
— The Riemann zeta function and analytic methods. **89i:11110c**
— Prime factors. **89i:11110d**
Iwaniec, H. (*with* Mozzochi, C. J.) On the divisor and circle problems. **89g:11091**
Mozzochi, C. J. *see* **Iwaniec, H., 89g:11091**
Shparlinskiĭ, I. E. The number of different prime divisors of recurrent sequences. (Russian) **89k:11092**
Ugrin-Šparac, Dimitrije Some analytic methods with applications to number theory. **89c:11148**

Items with secondary classifications in 11N99

Miller, William Von The maximum order of an element of a finite symmetric group. **89k:20005**
Nguyễn Xuân Viên Asymptotic behavior of the number of solutions of some systems of Diophantine inequalities. (Russian. English summary) **89f:11093**

11Pxx Additive number theory; partitions

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(Kandall, G. A.) *see* **Postnikov, A. G., 89a:11001**
Postnikov, A. G. ★ Introduction to analytic number theory. **89a:11001**
(Silver, Ben) *see* **Postnikov, A. G., 89a:11001**

11P05 Waring's problem and variants, sums of different powers

Arenas, Angela The concept of k-level for positive integers. **89c:11149**
Brüdern, Jörg On Waring's problem for cubes and biquadrates. **89a:11103**
— A problem in additive number theory. **89c:11150**
— On Waring's problem for cubes and biquadrates. II. **89f:11138**
Polyanskiĭ, A. A. Asymptotic formulas in equations of Waring type of the third degree. (Russian) (*see* **89f:11004**)
Richman, David The Waring problem for matrices. **89d:11087**
Selmer, Ernst S. On Waring's problem for squares. **89e:11058**
Sulakvelidze, L. A. Some formulas of Liouville type for the number of representations of numbers by positive quadratic forms with six variables. (Russian) **89j:11096**
Thanigasalam, K. On sums of 5th and 6th powers. **89m:11094**
Vaserstein, L. N. Waring's problem for algebras over fields. **89e:11059**
— Waring's problem for commutative rings. **89e:11060**
— Every integer is a sum or difference of 28 integral eighth powers. **89f:11139**

Items with secondary classifications in 11P05

Alemu, Yismaw On zeros of diagonal forms over p-adic fields. **89c:11061**
Brüdern, Jörg Cubic Diophantine inequalities. **89m:11033**
Deshouillers, Jean-Marc (*with* Dress, F.) Sommes de diviseurs et structure multiplicative des entiers. [Divisor sums and multiplicative structure of the integers] **89e:11054**
Dress, F. *see* **Deshouillers, Jean-Marc, 89e:11054**
Li, De Lang Representation of numbers by binary quadratic forms. **89d:11025**
Plaksin, V. A. The distribution of numbers that can be represented as the sum of two squares. **89h:11062**
Revoy, Philippe Niveaux d'ordre supérieur des corps et des anneaux. (English summary) [Higher-order levels of fields and rings] **89k:11025**
Rousseau, George On a construction for the representation of a positive integer as the sum of four squares. **89c:11055**
Vaserstein, L. N. On the sum of powers of matrices. **89a:15016**

11P21 Lattice points in specified regions

Baker, R. C. Square-free points on ellipsoids. **89k:11093**
Beck, József On a lattice point problem of L. Moser. I. **89k:11094**
— On a lattice point problem of L. Moser. II. **89m:11095**
Malyshev, A. V. (*with* Pachev, U. M.) Remainder terms in ergodic theorems for lattice points on some two-sheeted hyperboloids. (Russian) **89j:11097**
Müller, Wolfgang^2 (*with* Nowak, Werner Georg) Lattice points in domains $|x|^p+|y|^p\le R^p$. **89h:11063**
Nowak, Werner Georg Lattice points under trigonometric curves. (Arabic summary) **89f:11140**
— Primitive lattice points in rational ellipses and related arithmetic functions. **89g:11092**
— *see also* **Müller, Wolfgang^2, 89h:11063**
Pachev, U. M. *see* **Malyshev, A. V., 89j:11097**
Patterson, S. J. On a lattice-point problem in hyperbolic space and related questions in spectral theory. **89g:11093**

Items with secondary classifications in 11P21

Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Séries de Poincaré, sommes de Kloosterman et valeurs propres du laplacien pour les groupes de congruence agissant sur un espace hyperbolique. (French summary) [Poincaré series, Kloosterman sums and eigenvalues of the Laplacian for congruence groups acting on hyperbolic spaces] **89c:11086**
Finci, Kalmi On the asymptotic behavior of the G_h^x-mean and the D-mean of two functions from number theory. (Serbo-Croatian. English summary) **89a:11092**
Fleckinger, Jacqueline Pellé *see* **Lapidus, Michel L., 89d:35133**
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89c:11086**
Koo, Ja Kyung Arithmetic of integral even unimodular quadratic forms of 24 variables. **89f:11055**
Krätzel, Ekkehard Jenaer Beiträge zur Gitterpunkttheorie. (English and Russian summaries) [Jena's contributions to lattice point theory] **89f:01086**
Lapidus, Michel L. (*with* Fleckinger, Jacqueline Pellé) Tambour fractal: vers une résolution de la conjecture de Weyl-Berry pour les valeurs propres du laplacien. (English summary) [Fractal drum: towards a resolution of the Weyl-Berry conjecture for the eigenvalues of the Laplacian] **89d:35133**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89c:11086**
Teterin, Yu. G. Remarks on the representation of numbers that are divisible into large squares by a positive ternary quadratic form. (Russian) **89j:11033**
Uhrin, B. Some remarks about the lattice points in difference sets. **89c:22011**

11P32 Goldbach-type theorems

Peretti, A. The Goldbach problem. **89f:11141**
Yakovleva, N. A. Analogues of a problem of Goldbach-Euler type. (Russian) (*see* **89f:11004**)
Zhang, Ming Yao On Goldbach's conjecture and a pairing problem. (Chinese) (Not in MR)
— Goldbach conjecture and parity problem. **89k:11095**

Items with secondary classifications in 11P32

Burke, John R. (*with* Webb, W. A.) Sums of perturbed sequences of integers. **89j:11009**
Ryzhova, N. P. Asymptotics in a binary problem on shifted prime numbers. (Russian) (*see* **89f:11004**)
Webb, W. A. *see* **Burke, John R., 89j:11009**
Xie, Sheng Gang On equation $ap - bP_2 = m$. **89f:11041**

11P45 Other additive questions involving primes

Bredikhin, B. M. The smoothing method in additive problems with weight functions. (Russian) (*see* **89f:11004**)
Buriev, K. An additive problem with prime numbers. (Russian. Tajiki summary) **89i:11111**
Dashkevich, A. M. Representation of natural numbers in the form $n = p + \sum_{i=1}^{k} n^{k_i}$. (Russian) (*see* **89a:11006**)
Fedulova, T. M. The smoothing method in semiternary problems with polynomials. (Russian) (*see* **89f:11004**)
Győry, K. (*with* Stewart, C. L.; Tijdeman, R.) On prime factors of sums of integers. III. **89g:11094**
Panaitopol, L. On Sherk's theorem. **89f:11142**
Stewart, C. L. *see* **Győry, K.; et al., 89g:11094**
Tijdeman, R. *see* **Győry, K.; et al., 89g:11094**

Items with secondary classifications in 11P45

Rakhmonov, Z. Kh. The least Goldbach number in an arithmetic progression. (Russian. Tajiki summary) **89c:11142**
Ryzhova, N. P. Order estimates in the generalized Titchmarch problem. (Russian) (*see* **89f:11004**)

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Mit'kin, D. A. The Hilbert-Kamke problem in prime numbers. (Russian) **89e:11061**
Val'fish, A. A. An asymptotic formula for Diophantine equations of the second degree of elliptic type. (Russian) **89j:11098**
Wang, Yuan[1] Bounds for solutions of additive equations in an algebraic number field. II. **89a:11104**

Items with secondary classifications in 11P55

Agarwal, Ratan P. Ramanujan and theta functions. (*see* **89m:01070**)
Baker, R. C. (*with* Brüdern, Jörg) On pairs of additive cubic equations. **89i:11036**
Balasubramanian, Ramachandran The circle method and its implications. **89a:01038**
Brüdern, Jörg *see* **Baker, R. C., 89i:11036**
Dashkevich, A. M. Representation of natural numbers in the form $n = p + \sum_{i=1}^{k} n^{k_i}$. (Russian) (*see* **89a:11006**)
Golovizin, V. V. An asymptotic law for the number of representations of integers by positive quadratic forms. (Russian) **89k:11019**
Hooley, Christopher On nonary cubic forms. **89h:11014**
Ismoilov, D. An asymptotic formula in additive number theory. (Russian. Tajiki summary) **89m:11023**
Peretti, A. The method of the Laplace transform compared with the circle method of Hardy-Littlewood-Ramanujan. **89f:11052**
Pintz, János (*with* Steiger, William; Szemerédi, Endre) On sets of natural numbers whose difference set contains no squares. **89g:11019**
Preissmann, Emmanuel Sur la moyenne quadratique du terme de reste du problème du cercle. (English summary) [On the mean quadratic value of the remainder term in the circle problem] **89e:11056**
Ramachandra, K. Srinivasa Ramanujan (the inventor of the circle method) (22.12.1887 to 26.4.1920). **89e:11001**
(Ramanujan, Srinivasa) *see* **Ramachandra, K., 89e:11001** *and* **Agarwal, Ratan P.**, (**89m:01070**)
Rogovskaya, N. N. An asymptotic formula for the number of solutions of a system of equations. (Russian) **89h:11011**
Steiger, William *see* **Pintz, János; et al., 89g:11019**
Sulakvelidze, L. A. Some formulas of Liouville type for the number of representations of numbers by positive quadratic forms with six variables. (Russian) **89j:11096**
Szemerédi, Endre *see* **Pintz, János; et al., 89g:11019**
Vepkhvadze, T. V. Generalized theta-functions with characteristics and the representation of numbers by positive quadratic forms. (Russian. English and Georgian summaries) **89e:11021**
— The behavior of theta-functions and their derivatives under linear substitutions. (Russian) **89m:11041**

11P57 Partitions: recurrence relations, generating functions, etc.

Agarwal, Ashok Kumar[1] *see* **Subbarao, M. V., 89g:11095**
Andrews, G. E. The Rogers-Ramanujan identities without Jacobi's triple product. **89d:11088**
Ewell, John A. On sums of three triangular numbers. **89m:11096**
— Consequences of the triple- and quintuple-product identities. **89j:11099**
Hirschhorn, M. D. (*with* Subbarao, M. V.) On the parity of $p(n)$. **89j:11100**
Padmavathamma Some results concerning generalised Frobenius partitions. **89f:11143**
Stembridge, John R. A short proof of Macdonald's conjecture for the root systems of type A. **89e:11062**
Subbarao, M. V. (*with* Agarwal, Ashok Kumar[1]) Further theorems of the Rogers-Ramanujan type theorems. **89g:11095**
— *see also* **Hirschhorn, M. D., 89j:11100**

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Agarwal, Ashok Kumar[1] Rogers-Ramanujan identities for n-color partitions. **89b:11080**
Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) Some infinite product identities. **89f:05017**
Brillhart, John *see* **Blecksmith, Richard; et al., 89f:05017**
Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models: local height probabilities and theta function identities. **89d:82114**
Gerst, Irving *see* **Blecksmith, Richard; et al., 89f:05017**
Hirschhorn, M. D. A generalisation of the quintuple product identity. **89a:05019**
Jimbo, Michio *see* **Date, E.; et al., 89d:82114**
Kadell, Kevin W. J. A proof of some q-analogues of Selberg's integral for $k = 1$. **89h:33006a**
— A proof of Askey's conjectured q-analogue of Selberg's integral and a conjecture of Morris. **89h:33006b**
Krattenthaler, Ch. Operator methods and Lagrange inversion: a unified approach to Lagrange formulas. **89d:05017**
Kuniba, A. *see* **Date, E.; et al., 89d:82114**
Miwa, Tetsuji *see* **Date, E.; et al., 89d:82114**
Okado, Masato *see* **Date, E.; et al., 89d:82114**
Yang, Kung-Wei q-polynomial coefficients. **89f:05021**
— Limits of q-polynomial coefficients. **89d:05019**

11P65 Partitions: multipartite, and related problems

Andrews, G. E. (*with* Garvan, F. G.) Dyson's crank of a partition. **89b:11079**
Dodd, F. W. (*with* Mattics, L. E.) Estimating the number of multiplicative partitions. **89h:11064**
Garvan, F. G. *see* **Andrews, G. E., 89b:11079**
Mattics, L. E. *see* **Dodd, F. W., 89h:11064**

Items with secondary classifications in 11P65

Agarwal, Ashok Kumar[1] (*with* Mullen, Gary L.) Partitions with "$d(a)$ copies of a". **89d:05014**
Balasubramanian, Ramachandran A note on a result of Erdős, Sárközy and Sós. **89c:11023**
Mullen, Gary L. *see* **Agarwal, Ashok Kumar**[1], **89d:05014**

11P68 Partitions: restricted by congruence, inequality or repetition conditions

Agarwal, Ashok Kumar[1] Rogers-Ramanujan identities for n-color partitions. **89b:11080**
Bhargava, Srinivasamurthy On Rogers-Ramanujan identities. (*see* **89m:01070**)
Lin, Hua Yi *see* **Wu, Jian An; et al., 89j:11101**
Wu, Jian An (*with* Lin, Hua Yi; Wu, Le Guang) The existence of plane partitions with given row sum and column sum restrictions. (Chinese. English summary) **89j:11101**
Wu, Le Guang *see* **Wu, Jian An; et al., 89j:11101**

Items with secondary classifications in 11P68

Agarwal, Ashok Kumar[1] *see* **Subbarao, M. V., 89g:11095**
Padmavathamma The Hardy-Ramanujan-Rademacher expansion for $c\varphi_{m,m'}(n)$. **89k:11096**
Subbarao, M. V. (*with* Agarwal, Ashok Kumar[1]) Further theorems of the Rogers-Ramanujan type theorems. **89g:11095**
Verma, Arun Basic hypergeometric series and identities of Rogers-Ramanujan type. (*see* **89m:01070**)

11P72 Partitions: asymptotic, convergent series expansions

Odlyzko, A. M. Differences of the partition function. **89c:11151**
Padmavathamma The Hardy-Ramanujan-Rademacher expansion for $c\varphi_{m,m'}(n)$. **89k:11096**
Vanden Eynden, Charles Applications of a product identity to sums of squares and partitions. **89c:11152**

Items with secondary classifications in 11P72

Andrews, G. E. (*with* Dyson, Freeman J.; Hickerson, Dean) Partitions and indefinite quadratic forms. **89f:11071**
Cohen, Henri q-identities for Maass waveforms. **89f:11072**
Dyson, Freeman J. *see* **Andrews, G. E.; et al., 89f:11071**
Hickerson, Dean *see* **Andrews, G. E.; et al., 89f:11071**

11P76 Partitions: congruences for partition functions

Garvan, F. G. Combinatorial interpretations of Ramanujan's partition congruences. **89e:11063**
— New combinatorial interpretations of Ramanujan's partition congruences mod 5, 7 and 11. **89b:11081**

11P80 Partitions: miscellaneous results

Li, Wen-Ch'ing Winnie Various aspects of the Barnes' identity. **89i:11112**

Items with secondary classifications in 11P80

Baxter, Rodney James Ramanujan's identities in statistical mechanics. **89h:82043**
Robinson, John P. Edges in the poset of partitions of an integer. **89i:05035**
Sárközy, András On the number of prime factors of integers of the form $a_i + b_j$. **89j:11011**

11P99 None of the above, but in this section

Items with secondary classifications in 11P99

Eigen, Stanley (*with* Hajian, Arshag) Poincaré sequences in infinite measure spaces and complementing subsets of the integers. **89i:28009**

Freiman, G. (*with* Heppes, A.; Uhrin, B.) A lower estimation for the cardinality of finite difference sets in $\mathbf{R}^n$. **89e:05041**

Hajian, Arshag *see* **Eigen, Stanley, 89i:28009**

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Hujter, Mihaly (*with* Vizvári, Béla) The exact solutions to the Frobenius problem with three variables. **89f:11039**

Mossige, Svein On extremal h-bases A_4. **89e:11008**

Nakai, Yoshinobu On Diophantine inequalities of real indefinite quadratic forms of additive type in four variables. **89m:11034**

Uhrin, B. *see* **Freiman, G.; et al., 89e:05041**

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11Qxx Other arithmetic-analytic topics

11Q05 Analytic functions

van der Poorten, A. J. Solution de la conjecture de Pisot sur le quotient de Hadamard de deux fractions rationnelles. (English summary) [Solution of Pisot's conjecture on the Hadamard quotient of two rational functions] **89c:11153**

Items with secondary classifications in 11Q05

Hayman, Walter Functions mapping rationals on rationals. **89a:30027**

11Q15 Probability theory and ergodic theory

Mauclaire, Jean-Loup Integration and number theory. **89g:11096**

Items with secondary classifications in 11Q15

Håland, Inger Johanne Number theory and dynamical systems—a baffling interplay. (Norwegian. English summary) **89j:11012**

Mikhailov, A. V. The central limit theorem for a p-adic shift. I. (Russian) **89i:60053**

Mossé, Brigitte Mesures spectrales q-adiques de suites arithmétiques. (English summary) [q-adic spectral measures of arithmetic sequences] **89j:11080**

11Q20 Fourier analysis, approximation theory; functional analysis

Items with secondary classifications in 11Q20

Schwarz, Wolfgang Karl Ramanujan expansions of arithmetical functions. **89f:11136**

11Q25 Non-Archimedean analysis

Items with secondary classifications in 11Q25

Aref'eva, I. Ya. (*with* Dragović, B. G.; Volovich, I. V.) On the p-adic summability of the anharmonic oscillator. **89h:81037**

Borm, G. F. p-adic Fourier transforms. **89f:42023**

Coleman, Robert F. (*with* de Shalit, Ehud) p-adic regulators on curves and special values of p-adic L-functions. **89k:11041**

Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 89h:81037**

Freund, Peter G. O. (*with* Olson, Mark) Non-Archimedean strings. **89d:81094**

— (*with* Witten, Edward) Adelic string amplitudes. **89d:81095**

Goss, David The Γ-function in the arithmetic of function fields. **89d:11106**

Martínez-Maurica, J. (*with* Pellón, Teresa) Non-Archimedean Chebyshev centers. **89c:46098**

Natarajan, P. N. Characterization of regular and Schur matrices over non-Archimedean fields. **89b:46088**

Olson, Mark *see* **Freund, Peter G. O., 89d:81094**

Pellón, Teresa *see* **Martínez-Maurica, J., 89c:46098**

Petrov, E. E. Fundamental harmonics on a p-adic circle. (Russian) **89a:22032**

Rutkowski, J. On some expansions of p-adic functions. **89k:26013**

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Shen, You Feng Characterizations of $H^p(K^n)$ space. (Chinese summary) **89m:46077**

Volovich, I. V. *see* **Aref'eva, I. Ya.; et al., 89h:81037**

Witten, Edward *see* **Freund, Peter G. O., 89d:81095**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

11R04 Algebraic numbers: general

Narkiewicz, W. Units in residue classes. **89k:11097**

Waterhouse, William C. A tiny note on Gauss's lemma. **89i:11113**

Items with secondary classifications in 11R04

Endler, Otto ★ Teoria dos números algébricos. (Portuguese) [Algebraic number theory] **89g:11002**

Narkiewicz, W. A note on Artin's conjecture in algebraic number fields. **89a:11007**

(Pereira da Silva, C.) *see* **Ribenboim, Paulo, 89m:11098b**

Ribenboim, Paulo Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Portuguese) **89m:11098b**

— Euler's famous prime generating polynomial and the class number of imaginary quadratic fields. **89m:11098a**

Schinzel, A. Second order strong divisibility sequences in an algebraic number field. **89c:11028**

11R06 PV-numbers and generalizations; other special algebraic numbers

Decomps-Guilloux, Annette (*with* Grandet-Hugot, Marthe) Nouvelles caractérisations des nombres de Pisot et de Salem. [New characterizations of the Pisot and Salem numbers] **89g:11097**

Grandet-Hugot, Marthe *see* **Decomps-Guilloux, Annette, 89g:11097**

Pathiaux-Delefosse, M. Propriété de grands nombres de Pisot. [A property of large Pisot numbers] **89j:11102**

Smyth, C. J. Generalised Salem numbers. **89k:11098**

11R09 Polynomials (irreducibility, etc.)

Abbott, J. A. (*with* Davenport, James H.) Another surprising property of 42. A remark on a paper by P. S. Wang: "Factoring multivariate polynomials over algebraic number fields" [Math. Comp. **30** (1976), no. 134, 324–336; MR **58** #27887a]. **89d:11089**

Davenport, James H. *see* **Abbott, J. A., 89d:11089**

Drauschke, Gabriele (*with* Tasche, Manfred) Prime factorizations for values of cyclotomic polynomials in $\mathbf{Z}[i]$. **89h:11065**

Filaseta, Michael The irreducibility of almost all Bessel polynomials. **89a:11105**

Gerboud, Gilbert Polynômes à valeurs entières sur l'anneau des entiers de Gauss. (English summary) [Integral-valued polynomials over the ring of Gaussian integers] **89m:11097**

Schinzel, A. Reducibility of lacunary polynomials. VIII. **89f:11144**

Tasche, Manfred *see* **Drauschke, Gabriele, 89h:11065**

(Wang, Paul S.) *see* **Abbott, J. A., 89d:11089**

Items with secondary classifications in 11R09

Abbott, J. A. (*with* Bradford, R. J.; Davenport, James H.) Factorisation of polynomials: old ideas and recent results. **89f:12001**

Bradford, R. J. *see* **Abbott, J. A.; et al., 89f:12001**

Davenport, James H. *see* **Abbott, J. A.; et al., 89f:12001**

Evertse, J.-H. (*with* Győry, K.) On the number of polynomials and integral elements of given discriminant. **89k:12006**

Filaseta, Michael Irreducibility criteria for polynomials with nonnegative coefficients. **89h:12002**

Győry, K. *see* **Evertse, J.-H., 89k:12006**

Kaminski, Michael Cyclotomic polynomials and units in cyclotomic number fields. **89d:11014**

Lan, Yi Zhong On cubic cyclic extensions of number fields. I. (Chinese) **89i:11117**

Neumann, Olaf On the imbedding of quadratic extensions into Galois extensions with symmetric group. **89g:12009**

11R11 Quadratic extensions

Böcherer, S. Das Gaußsche Klassenzahlproblem. [Gauss's class number problem] **89b:11082**

Buchmann, Johannes (*with* Williams, Hugh Cowie) On the infrastructure of the principal ideal class of an algebraic number field of unit rank one. **89g:11098**

Cámpoli, Oscar A. A principal ideal domain that is not a Euclidean domain. **89h:11066**

Chuman, Yasuhiro (*with* Ishii, Noburo) On the quartic residue of quadratic units of negative norm. **89a:11106**

Dobbs, David E. (*with* Fontana, Marco) Seminormal rings generated by algebraic integers. **89e:11064**

Fontana, Marco *see* **Dobbs, David E., 89e:11064**

Gallian, Joseph A. (*with* Jungreis, Douglas S.) Homomorphisms from $Z_m[i]$ into $Z_n[i]$ and $Z_m[\rho]$ into $Z_n[\rho]$, where $i^2+1=0$ and $\rho^2+\rho+1=0$. **89c:11154**

Ishii, Noburo *see* **Chuman, Yasuhiro, 89a:11106**

Jungreis, Douglas S. *see* **Gallian, Joseph A., 89c:11154**

Lehmer, Emma Connection between Gaussian periods and cyclic units. **89h:11067a**

Leu, Ming-Guang On a conjecture of Ono on real quadratic fields. **89f:11145**

Llorente, Pascual (*with* Quer, Jordi) On the 3-Sylow subgroup of the class group of quadratic fields. **89b:11083**

Mollin, R. A. (*with* Williams, Hugh Cowie) A conjecture of S. Chowla via the generalized Riemann hypothesis. **89d:11090**

Mushtaq, Q. Modular group acting on real quadratic fields. **89e:11065**

Ono, Takashi A problem on quadratic fields. **89k:11099**

(Pereira da Silva, C.) *see* **Ribenboim, Paulo, 89m:11098b**

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Ribenboim, Paulo Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Portuguese) **89m:11098b**

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Sasaki, Ryuji Generalized Ono invariant and Rabinovitch's theorem for real quadratic fields. **89b:11084**

Schoof, René (*with* Washington, Lawrence C.) Quintic polynomials and real cyclotomic fields with large class numbers. **89h:11067b**

Stephens, A. J. (*with* Williams, Hugh Cowie) Some computational results on a problem concerning powerful numbers. **89d:11091**

Washington, Lawrence C. *see* **Schoof, René, 89h:11067b**

Williams, Hugh Cowie *see* **Mollin, R. A., 89d:11090; Stephens, A. J., 89d:11091** *and* **Buchmann, Johannes, 89g:11098**

Yokoi, Hideo Class number one problem for real quadratic fields (the conjecture of Gauss). **89e:11066**

Zhang, Chun Cheng The matrix representation of quadratic algebraic extension fields and its generalization. (Chinese. English summary) **89f:11146**

Items with secondary classifications in 11R11

Azuhata, Takashi On the fundamental units and the class numbers of real quadratic fields. II. **89g:11104**
Diaz y Diaz, F. (*with* Llorente, Pascual; Quer, Jordi) Cubic fields, a congruential criterion for Scholz's theorem and new real quadratic fields with 3-rank equal to 4. **89d:11097**
Han, Shi An The classes of some positive definite unimodular lattices over $\mathbf{Z}[\sqrt{3}]$ and $\mathbf{Z}[\sqrt{6}]$. **89k:11024**
Hardy, Kenneth (*with* Williams, Kenneth S.) Congruences modulo 16 for the class numbers of complex quadratic fields. **89a:11114**
Horie, Kuniaki *see* **Nakagawa, Jin, 89k:11113**
Lachaud, Gilles Sur les corps quadratiques réels principaux. [On principal real quadratic fields] **89c:11161**
Lang, Heinrich Über die Restklasse modulo 2^{e+2} des Wertes $2^e n\zeta(1-2^e n,\mathfrak{K})$ der Zetafunktion einer Idealklasse aus dem reell-quadratischen Zahlkörper $\mathbf{Q}(\sqrt{D})$ mit $D\equiv 3 \bmod 4$. [On the residue class modulo 2^{e+2} of the value $2^e n\zeta(1-2^e n,\mathfrak{K})$ of the zeta function of an ideal class belonging to the real-quadratic number field $\mathbf{Q}(\sqrt{D})$ with $D\equiv 3 \bmod 4$] **89i:11125**
Levesque, Claude Continued fraction expansions and fundamental units. **89f:11021**
Llorente, Pascual *see* **Diaz y Diaz, F.; et al., 89d:11097**
Mollin, R. A. (*with* Small, Charles; Varadarajan, K.; Walsh, P. G.) On unit solutions of the equation $xyz=x+y+z$ in the ring of integers of a quadratic field. **89d:11019**
— Lower bounds for class numbers of real quadratic and biquadratic fields. **89a:11117**
— Generalized Fibonacci primitive roots, and class numbers of real quadratic fields. **89d:11010**
— Necessary and sufficient conditions for the class number of a real quadratic field to be one, and a conjecture of S. Chowla. **89d:11098**
Nakagawa, Jin (*with* Horie, Kuniaki) Elliptic curves with no rational points. **89k:11113**
Quer, Jordi *see* **Diaz y Diaz, F.; et al., 89d:11097**
Robson, Robert O. An Artin conjecture for two-term recurrence sequences. **89c:11027**
Small, Charles *see* **Mollin, R. A.; et al., 89d:11019**
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Vivaldi, Franco The arithmetic of chaos. **89b:58123**
Walsh, P. G. *see* **Mollin, R. A.; et al., 89d:11019**
Williams, Kenneth S. *see* **Hardy, Kenneth, 89a:11114**
Zhang, Xian Ke Ambiguous classes and 2-rank of class group of quadratic function field. (Chinese summary) **89j:11115**

11R16 Cubic and quartic extensions

Buchmann, Johannes (*with* Ford, David) On the computation of totally real quartic fields of small discriminant. **89f:11147**
(Dueck, G. W.) *see* **Williams, Hugh Cowie, 89b:11085**
Ennola, Veikko On a conjecture of H. J. Godwin on cubic units. **89i:11114**
Ford, David *see* **Buchmann, Johannes, 89f:11147**
Gerth, Frank, III Densities for 3-class ranks in certain cubic extensions. **89c:11155**
— Correction to the paper: "Densities for 3-class ranks of pure cubic fields" [Acta Arith. **46** (1986), no. 3, 227–242; MR 88a:11106]. **89i:11115**
Hardy, Kenneth (*with* Hudson, Richard H.; Richman, David; Williams, Kenneth S.) Determination of all imaginary cyclic quartic fields with class number 2. **89f:11148**
Hudson, Richard H. *see* **Hardy, Kenneth; et al., 89f:11148**
Kamei, Masato Congruences of Ankeny-Artin-Chowla type for pure quartic and sectic fields. **89a:11107**
Lan, Yi Zhong On cubic cyclic extensions of number fields. I. (Chinese) **89i:11117**
Llorente, Pascual (*with* Quer, Jordi) On totally real cubic fields with discriminant $D<10^7$. **89g:11099**
Nakamula, Ken A table for pure cubic fields. **89i:11116**
Nakano, Shin Construction of pure cubic fields with large 2-class groups. **89f:11149**
van der Ploeg, C. E. Errata: "Duality in nonnormal quartic fields" [Amer. Math. Monthly **94** (1987), no. 3, 279–284]. **89c:11156**
— On a converse to the Tschebotarev density theorem. **89h:11068**
Quer, Jordi *see* **Llorente, Pascual, 89g:11099**
Richman, David *see* **Hardy, Kenneth; et al., 89f:11148**
Spearman, Blair K. (*with* Williams, Kenneth S.) Cyclic quartic fields with relative integral bases over their quadratic subfields. **89g:11100**
Williams, Hugh Cowie Corrigenda: "Computation of the class number and class group of a complex cubic field" [Math. Comp. **45** (1985), no. 171, 223–231; MR 86m:11078] by G. W. Dueck and Williams. **89b:11085**
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Zhang, Xian Ke A congruence formula for the class number of a general fourth degree cyclic field. (Chinese) **89g:11101**

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Azuhata, Takashi On the calculation of a system of fundamental units of an algebraic number field. **89a:11111**
Bölling, Reinhard On ranks of class groups of fields in dihedral extensions over Q with special reference to cubic fields. **89g:11105**
Buchmann, Johannes (*with* Williams, Hugh Cowie) On the infrastructure of the principal ideal class of an algebraic number field of unit rank one. **89g:11098**
Lehmer, Emma Connection between Gaussian periods and cyclic units. **89h:11067a**
Mollin, R. A. Lower bounds for class numbers of real quadratic and biquadratic fields. **89a:11117**
Schoof, René (*with* Washington, Lawrence C.) Quintic polynomials and real cyclotomic fields with large class numbers. **89h:11067b**
Washington, Lawrence C. *see* **Schoof, René, 89h:11067b**
Williams, Hugh Cowie *see* **Buchmann, Johannes, 89g:11098**

11R18 Cyclotomic extensions

Bremner, A. On power bases in cyclotomic number fields. **89d:11092**
Johnsen, K. Zu einem Satz von Rédei über Kreisteilungspolynome. [On a theorem of Rédei on cyclotomic polynomials] **89g:11102**
Kleinert, Ernst On the class number of some quaternion group rings. **89j:11103**
Krick, Teresa Examples of rings of integers of cyclotomic fields that are not unique factorization domains. (Spanish) **89a:11108**
Thaine, Francisco On the ideal class groups of real abelian number fields. **89m:11099**
Urbanowicz, Jerzy On the divisibility of $\omega_{m+1}(F^+)\zeta_{F^+}(-m)$ for cyclotomic fields F. **89k:11100**
Vostokov, S. V. A remark on the space of cyclotomic units. **89f:11150**

Items with secondary classifications in 11R18

Agoh, Takashi On Bernoulli numbers. I. **89c:11034**
Anderson, Greg W. Torsion points on Fermat Jacobians, roots of circular units and relative singular homology. **89g:14012**
Coleman, Robert F. (*with* McCallum, William) Stable reduction of Fermat curves and Jacobi sum Hecke characters. **89h:11026**
DeMeyer, F. R. (*with* Harrison, David Kent; Miranda, Rick) Quadratic forms over Q and Galois extensions of commutative rings. **89m:11036**
Girstmair, Kurt Character coordinates and annihilators of cyclotomic numbers. **89a:11071**
— Ein v. Staudt-Clausenscher Satz für periodische Bernoullizahlen. (English summary) [A theorem of von Staudt-Clausen type for periodic Bernoulli numbers] **89a:11026**
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Hayes, David R. The refined $\mathfrak{p}$-adic abelian Stark conjecture in function fields. **89k:11116**
Hecke, Erich ★ Analysis und Zahlentheorie. (German) [Analysis and number theory] **89k:01043**
Inuzuka, Masaaki *see* **Kimura, Tatsuo; et al., 89k:11101**
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McCallum, William *see* **Coleman, Robert F., 89h:11026**
Miki, Hiroo On the l-adic expansion of certain Gauss sums and its applications. **89k:11071**
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Moriah, Yoav Heegaard splittings of Seifert fibered spaces. **89d:57010**
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Schinzel, A. Reducibility of lacunary polynomials. VIII. **89f:11144**
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Slavutʹskiĭ, I. Sh. L-functions and the class number of cyclotomic fields. (Russian) **89m:11079**
Srivastava, Hari M. Some explicit formulas for the Bernoulli and Euler numbers and polynomials. **89c:11035**
Taguchi, Masanobu *see* **Kimura, Tatsuo; et al., 89k:11101**
Thaine, Francisco On Fermat's last theorem and the arithmetic of $\mathbf{Z}[\zeta_p+\zeta_p^{-1}]$. **89m:11029**
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11R20 Other abelian and metabelian extensions

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Cougnard, Jean Conditions nécessaires de monogénéité. Application aux extensions cycliques de degré premier $l\geq 5$ d'un corps quadratique imaginaire. [Necessary conditions for monogeneity. Application to cyclic extensions of prime degree $l\geq 5$ of an imaginary quadratic field] **89c:11157**
Dummit, D. S. (*with* Kisilevsky, H.) Abelian extensions generated by division points. **89j:11104**
Gras, Marie-Nicole Condition nécessaire de monogénéité de l'anneau des entiers d'une extension abélienne de Q. [A necessary condition for monogeneity of the ring of integers of an abelian extension of Q] **89c:11159**
Horie, Mitsuko A note on central class fields. **89d:11093**
Inuzuka, Masaaki *see* **Kimura, Tatsuo; et al., 89k:11101**
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Massy, Richard Construction de p-extensions galoisiennes d'un corps de caractéristique différente de p. (English summary) [Construction of Galois p-extensions of a field of characteristic $\neq p$] **89c:11160**
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Chuman, Yasuhiro (*with* Ishii, Noburo) On the quartic residue of quadratic units of negative norm. **89a:11106**
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Horie, Kuniaki Iwasawa's λ^--invariant and a supplementary factor in an algebraic class number formula. **89i:11118**
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Lan, Yi Zhong On cubic cyclic extensions of number fields. I. (Chinese) **89i:11117**
Mäki, Sirpa The conductor density of cyclic fields of square-free degree. **89m:11103**

Mollin, R. A. Lower bounds for class numbers of real quadratic and biquadratic fields. **89a:11117**

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Odai, Yoshitaka On unramified cyclic extensions of degree l of algebraic number fields of degree l. **89a:11109**

Vélez, William Yslas The factorization of p in $\mathbf{Q}(a^{1/p^k})$ and the genus field of $\mathbf{Q}(a^{1/n})$. **89m:11100**

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Abboud, Elias $\mathbf{Q}$-admissibility of certain nonsolvable groups. **89f:11154**

Bölling, Reinhard On ranks of class groups of fields in dihedral extensions over Q with special reference to cubic fields. **89g:11105**

Coleman, Robert F. On the Galois groups of the exponential Taylor polynomials. **89e:12007**

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Tsumura, Hirofumi On a p-adic interpolation of the generalized Euler numbers and its applications. **89k:11121**

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11R23 Infinite algebraic extensions; Iwasawa theory

Emsalem, Michel Sur les ideaux dont l'image par l'application d'Artin dans une $\mathbf{Z}_p$-extension est triviale. [On ideals with trivial image under the Artin mapping in a $\mathbf{Z}_p$-extension] **89b:11086**

Gillard, Roland Croissance du nombre de classes dans des $\mathbf{Z}_l$-extensions liées aux corps quadratiques imaginaires. [Growth of the class number in $\mathbf{Z}_l$-extensions associated to imaginary quadratic fields] **89e:11067**

Gold, Robert (*with* Madan, Manohar L.) Kida's theorem for a class of nonnormal extensions. **89k:11102**

Horie, Kuniaki On Iwasawa λ^--invariants of imaginary abelian fields. **89a:11110**

— Iwasawa's λ^--invariant and a supplementary factor in an algebraic class number formula. **89i:11118**

Jaulent, Jean-François Genre des corps surcirculaires. [The genus of supercircular fields] **89b:11087**

Madan, Manohar L. *see* **Gold, Robert, 89k:11102**

Monsky, Paul Class numbers in $\mathbf{Z}_p^d$-extensions. IV. **89b:11088**

Perrin-Riou, Bernadette Fonctions L p-adiques, théorie d'Iwasawa et points de Heegner. (English summary) [p-adic L-functions, Iwasawa theory and Heegner points] **89d:11094**

Rubin, Karl Local units, elliptic units, Heegner points and elliptic curves. **89h:11069**

— On the main conjecture of Iwasawa theory for imaginary quadratic fields. **89j:11105**

Tilouine, Jacques Une conséquence de la conjecture principale dans la théorie d'Iwasawa d'un corps quadratique imaginaire. (English summary) [A consequence of the Main Conjecture in the Iwasawa theory of an imaginary quadratic field] **89g:11103**

— Théorie d'Iwasawa classique et de l'algèbre de Hecke ordinaire. [Classical Iwasawa theory and ordinary Hecke algebras] **89f:11152**

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Crew, Richard L-functions of p-adic characters and geometric Iwasawa theory. **89g:11049**

Gras, Georges Pseudo-mesures p-adiques associées aux fonctions L de Q. (English summary) [p-adic pseudomeasures associated with the L-functions of Q] **89d:11109**

Hida, Haruzo Congruences of cusp forms and Hecke algebras. **89a:11052**

— On p-adic Hecke algebras for GL_2. **89d:11039**

— Modules of congruence of Hecke algebras and L-functions associated with cusp forms. **89i:11058**

Kersten, I. (*with* Michaliček, Johannes) Kummer theory without roots of unity. **89h:12009**

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Metsänkylä, Tauno A characterization of the λ-invariant of a p-adic L-function. **89g:11117**

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Ramaroson, François A note on the arithmetic of an elliptic curve over $\mathbf{Z}_p$-extensions. **89d:11048**

Rubin, Karl p-adic L-functions and descent on non-CM elliptic curves. **89f:11086**

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Urbanowicz, Jerzy On the divisibility of $\omega_{m+1}(F^+)\zeta_{F^+}(-m)$ for cyclotomic fields F. **89k:11100**

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Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**

11R27 Units and factorization

Azuhata, Takashi On the calculation of a system of fundamental units of an algebraic number field. **89a:11111**

— On the fundamental units and the class numbers of real quadratic fields. II. **89g:11104**

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Buchmann, Johannes (*with* Sands, Jonathan W.) Leopoldt's conjecture in parameterized families. **89m:11101**

Degel, Bernhard Kettenbrüche in imaginärquadratischen Zahlkörpern mit Klassenzahl 1. [Continued fractions in imaginary quadratic number fields with class number 1] **89a:11112**

Furuta, Yoshiomi Note on ramification of central extensions and Leopoldt's conjecture. **89m:11102**

Geroldinger, Alfred Über nicht-eindeutige Zerlegungen in irreduzible Elemente. [On nonunique decompositions into irreducible elements] **89d:11096**

Hirabayashi, Mikihito (*with* Yoshino, Ken-ichi) Remarks on unit indices of imaginary abelian number fields. **89e:11068**

Ishii, Noburo On the eighth power residue of totally positive quadratic units. **89j:11106**

Lettl, Günter Characterization of irreducible algebraic integers by their norms. **89k:11103**

Olson, Loren D. Parametrized units in algebraic number fields. **89e:11069**

Sands, Jonathan W. *see* **Buchmann, Johannes, 89m:11101**

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Buchmann, Johannes On the computation of units and class numbers by a generalization of Lagrange's algorithm. **89b:11104**

— (*with* Williams, Hugh Cowie) On the infrastructure of the principal ideal class of an algebraic number field of unit rank one. **89g:11098**

Chuman, Yasuhiro (*with* Ishii, Noburo) On the quartic residue of quadratic units of negative norm. **89a:11106**

Ennola, Veikko On a conjecture of H. J. Godwin on cubic units. **89i:11114**

Hayashi, Heima Note on an index formula of elliptic units in a ring class field. II. **89j:11058**

Hayes, David R. The refined p-adic abelian Stark conjecture in function fields. **89k:11116**

Hellegouarch, Yves (*with* McQuillan, D. L.; Paysant-Le Roux, R.) Unités de certains sous-anneaux des corps de fonctions algébriques. [Units of certain subrings of algebraic function fields] **89g:11112**

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Kaminski, Michael Cyclotomic polynomials and units in cyclotomic number fields. **89d:11014**

Lehmer, Emma Connection between Gaussian periods and cyclic units. **89h:11067a**

Levesque, Claude Continued fraction expansions and fundamental units. **89f:11021**

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Ono, Takashi On some class number relations for Galois extensions. **89f:11153**

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Pohst, Michael A modification of the LLL reduction algorithm. **89c:11183**

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Rubin, Karl Global units and ideal class groups. **89e:11035**

Schoof, René (*with* Washington, Lawrence C.) Quintic polynomials and real cyclotomic fields with large class numbers. **89h:11067b**

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Stephens, A. J. (*with* Williams, Hugh Cowie) Some computational results on a problem concerning powerful numbers. **89d:11091**

Thaine, Francisco On the ideal class groups of real abelian number fields. **89m:11099**

Trotter, Hale F. An overlooked example of nonunique factorization. **89h:12006**

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Yokoi, Hideo Class number one problem for real quadratic fields (the conjecture of Gauss). **89e:11066**

11R29 Class numbers, class groups, discriminants

Bölling, Reinhard On ranks of class groups of fields in dihedral extensions over Q with special reference to cubic fields. **89g:11105**

Cornell, Gary (*with* Rosen, Michael) The class group of an absolutely abelian l-extension. **89j:11107**

Diaz y Diaz, F. (*with* Llorente, Pascual; Quer, Jordi) Cubic fields, a congruential criterion for Scholz's theorem and new real quadratic fields with 3-rank equal to 4. **89d:11097**

Eckhardt, Carsten Computation of class numbers by an analytic method. **89b:11089**

Gaál, István Integral elements with given discriminant over function fields. **89k:11104**

Hardy, Kenneth (*with* Williams, Kenneth S.) Congruences modulo 16 for the class numbers of complex quadratic fields. **89a:11114**

İşcan, Hülya The solution of the class number 3 problem. (Turkish. English summary) **89a:11115**

Kahn, Bruno Erratum: "The group of classes modulo 2, following Conner and Perlis" [*Seminar on number theory, 1984–1985* (French), Exp. No. 26, Univ. Bordeaux I, Talence, 1985; MR 88f:11104]. (French) **89a:11116**

Lachaud, Gilles Sur les corps quadratiques réels principaux. [On principal real quadratic fields] **89c:11161**

Lettl, Günter Durch Normen definierte Idealklassengruppen. [Ideal class groups defined by norms] **89k:11105**

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Nakamula, Ken Elliptic units and the class numbers of non-Galois fields. **89a:11118**
Oesterlé, Joseph Le problème de Gauss sur le nombre de classes. [Gauss's problem on the class number] **89j:11108**
Ono, Takashi On some class number relations for Galois extensions. **89f:11153**
Quême, Roland Une relation d'inégalité entre discriminant, nombre de classes et régulateur des corps de nombres. (English summary) [An inequality connecting the discriminant, the regulator and the class number of a number field] **89j:11109**
— Majorations du nombre de classes. (English summary) [Bounds for class numbers] **89j:11110**
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Takeuchi, Teruo A note on l-parts of ray class groups. **89c:11162**
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Bayer, Pilar Right triangles with rational sides. (Catalan) **89f:11085**
Bond, Robert J. Unramified abelian extensions of number fields. **89k:11107**
Buchmann, Johannes On the computation of units and class numbers by a generalization of Lagrange's algorithm. **89b:11104**
Dem'yanenko, V. A. The number of divisor classes of elliptic fields. (Russian) **89k:11042**
(Dueck, G. W.) *see* **Williams, Hugh Cowie, 89b:11085**
Evertse, J.-H. (*with* Győry, K.) On the number of polynomials and integral elements of given discriminant. **89k:12006**
Fujii, Akio Arithmetic of some zeta function connected with the eigenvalues of the Laplace-Beltrami operator. **89m:11083**
Geroldinger, Alfred Über nicht-eindeutige Zerlegungen in irreduzible Elemente. [On nonunique decompositions into irreducible elements] **89d:11096**
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Gillard, Roland Croissance du nombre de classes dans des $\mathbf{Z}_l$-extensions liées aux corps quadratiques imaginaires. [Growth of the class number in $\mathbf{Z}_l$-extensions associated to imaginary quadratic fields] **89e:11067**
Gross, Benedict H. (*with* Kohnen, Winfried; Zagier, Don) Heegner points and derivatives of L-series. II. **89i:11069**
Győry, K. *see* **Evertse, J.-H., 89k:12006**
Hardy, Kenneth (*with* Hudson, Richard H.; Richman, David; Williams, Kenneth S.) Determination of all imaginary cyclic quartic fields with class number 2. **89f:11148**
Horie, Kuniaki Iwasawa's λ^--invariant and a supplementary factor in an algebraic class number formula. **89i:11118**
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Kamei, Masato Congruences of Ankeny-Artin-Chowla type for pure quartic and sectic fields. **89a:11107**
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Kimura, Tatsuo (*with* Kasai, S.; Taguchi, Masanobu; Inuzuka, Masaaki) Some P.V.-equivalences and a classification of 2-simple prehomogeneous vector spaces of type II. **89k:11101**
Kleinert, Ernst On the class number of some quaternion group rings. **89j:11103**
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Koike, Masao (*with* Tanigawa, Yoshio) A_4-extensions over real quadratic fields and Hecke operators. **89j:11045**
Krick, Teresa Examples of rings of integers of cyclotomic fields that are not unique factorization domains. (Spanish) **89a:11108**
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Nakagawa, Jin On the Galois group of a number field with square free discriminant. **89g:11106**
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Ribenboim, Paulo Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Portuguese) **89m:11098b**
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Rubin, Karl Global units and ideal class groups. **89e:11035**
Sasaki, Ryuji Generalized Ono invariant and Rabinovitch's theorem for real quadratic fields. **89b:11084**
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Thaine, Francisco On the ideal class groups of real abelian number fields. **89m:11099**
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Zhang, Xian Ke Ambiguous classes and 2-rank of class group of quadratic function field. (Chinese summary) **89j:11115**
— A congruence formula for the class number of a general fourth degree cyclic field. (Chinese) **89g:11101**
Zimmer, Horst Günter ★ Zur Arithmetik der elliptischen Kurven. (German) [On the arithmetic of elliptic curves] **89h:11024**

11R32 Galois theory

Abboud, Elias $\mathbf{Q}$-admissibility of certain nonsolvable groups. **89f:11154**
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Mestre, Jean-François Courbes hyperelliptiques à multiplications réelles. (English summary) [Hyperelliptic curves with real multiplication] **89k:11106**
Nakagawa, Jin On the Galois group of a number field with square free discriminant. **89g:11106**
Sonn, J. Double covers of S_5 and Frobenius groups as Galois groups over number fields. **89f:11155**
Sueyoshi, Yutaka A characterization of number fields by p-closed extensions. **89h:11070**
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Belyĭ, G. V. The commutant of the absolute Galois group. (Russian) **89f:12006**
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Matzat, B. Heinrich (*with* Zeh-Marschke, Andreas) Polynome mit der Galoisgruppe M_{11} über $\mathbf{Q}$. (English summary) [Polynomials with the Galois group M_{11} over $\mathbf{Q}$] **89b:12004**
— Computational methods in constructive Galois theory. **89f:12007**
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Praeger, Cheryl E. Covering subgroups of groups and Kronecker classes of fields. **89i:20040**
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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

Childs, Lindsay N. Taming wild extensions with Hopf algebras. **89a:11119**
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— Module defect and factorisability. **89g:11108**
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Pinch, R. G. E. Galois module structure of elliptic functions. **89i:11122**
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Sodaïgui, Bouchaïb Structure galoisienne relative des anneaux d'entiers. (English summary) [Relative Galois structure of rings of integers] **89d:11099**
Taylor, M. J. Mordell-Weil groups and the Galois module structure of rings of integers. **89j:11113**
Waterhouse, William C. Integral 4 by 4 skew circulants. **89d:11100**

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Cougnard, Jean Conditions nécessaires de monogénéité. Application aux extensions cycliques de degré premier $l \geq 5$ d'un corps quadratique imaginaire. [Necessary conditions for monogeneity. Application to cyclic extensions of prime degree $l \geq 5$ of an imaginary quadratic field] **89c:11157**
Faddeev, D. K. On modules for quadratic extensions of Dedekind rings. (Russian) **89a:13020**

Gras, Marie-Nicole Condition nécessaire de monogénéité de l'anneau des entiers d'une extension abélienne de Q. [A necessary condition for monogeneity of the ring of integers of an abelian extension of Q] **89c:11159**
Haghighi, M. Computation of relative integral bases for algebraic number fields. **89f:11151**
Hellegouarch, Yves (*with* McQuillan, D. L.; Paysant-Le Roux, R.) Unités de certains sous-anneaux des corps de fonctions algébriques. [Units of certain subrings of algebraic function fields] **89g:11112**
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Miyata, Yoshimasa Vertices of ideals of a $\mathfrak{p}$-adic number field. **89c:11170**
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Sekiguchi, Katsusuke On the unit groups of the integral group rings of metacyclic groups. **89m:20006**
Sen, Shankar Integral representations associated with p-adic field extensions. **89j:11117**
Spearman, Blair K. (*with* Williams, Kenneth S.) Cyclic quartic fields with relative integral bases over their quadratic subfields. **89g:11100**
Srivastav, Anupam Swan modules and elliptic functions. **89m:11108**
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Yamada, Toshihiko (*with* Ito, Seiichi) The degree of a Schur algebra. **89h:20009**

11R34 Galois cohomology [see also 12Gxx, 16A16, 19A31]

Ch'ên, Yung Ch'iu *see* **Chu, Hua; et al., 89d:11101**
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Massy, Richard Construction de p-extensions galoisiennes d'un corps de caractéristique différente de p. (English summary) [Construction of Galois p-extensions of a field of characteristic $\neq p$] **89c:11160**
Salberger, Per Zero-cycles on rational surfaces over number fields. **89c:14010**

11R37 Class field theory

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Cornell, Gary (*with* Rosen, Michael) A note on the splitting of the Hilbert class field. **89f:11156**
Kubota, Tomio Geometry of numbers and class field theory. **89f:11157**
Ohta, Kiichiro On the p-class groups of relatively abelian number fields. **89m:11107**
Ramaroson, François Some remarks on the generation of subfields of ring class fields. **89i:11123**
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Schmidt, Claus-Günther L'idéal de Stickelberger et les unités cyclotomiques pour les groupes de classes arbitraires d'un corps abélien. [The Stickelberger ideal and the cyclotomic units for arbitrary class groups of an abelian field] **89b:11091**
Tomanov, G. On Grunwald-Wang's theorem. **89f:11158**
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Kato, Kazuya Swan conductors with differential values. **89k:11117**
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Rosen, Michael The Hilbert class field in function fields. **89b:11094**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

Ahumada, Guido Fonctions périodiques et formule des traces de Selberg sur les arbres. (English summary) [Periodic functions and the Selberg trace formula for trees] **89d:11103**
Cogdell, J. W. (*with* Piatetski-Shapiro, Ilja Iosifovitch) Base change for $\widetilde{\mathrm{SL}}_2$. **89c:11163**
Drinfel'd, V. G. Moduli varieties of F-sheaves. (Russian) **89b:11092**
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Bump, Daniel (*with* Hoffstein, Jeffrey) On Shimura's correspondence. **89c:11072**
Dade, Everett C. Accessible characters are monomial. **89h:20012**
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Flicker, Yuval Z. On the symmetric square: orbital integrals. **89e:22016**
— Stable base change for spherical functions. **89b:11098**
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Gelbart, Stephen (*with* Piatetski-Shapiro, Ilja Iosifovitch; Rallis, Stephen) ★ Explicit constructions of automorphic L-functions. **89k:11038**
— (*with* Shahidi, Freydoon) ★ Analytic properties of automorphic L-functions. **89f:11077**
Hoffstein, Jeffrey *see* **Bump, Daniel, 89c:11072**
Koike, Masao (*with* Tanigawa, Yoshio) A_4-extensions over real quadratic fields and Hecke operators. **89j:11045**
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— (*with* Soudry, David) On a correspondence of automorphic forms on orthogonal groups of order five. **89e:22030**
— *see also* **Gelbart, Stephen; et al., 89k:11038**
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11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

Arakawa, Tsuneo Dirichlet series $\sum_{n=1}^{\infty} \cot \pi n\alpha/n^s$, Dedekind sums, and Hecke L-functions for real quadratic fields. **89i:11124**
Çallıalp, Fethi Zeta functions of the real quadratic fields with discriminant $d = n^2 + 4 \equiv 5$ (mod 8). (Turkish. English summary) **89e:11070**
Colmez, Pierre Résidu en $s = 1$ des fonctions zêta p-adiques. [The residue at $s = 1$ of p-adic zeta functions] **89d:11104**
Foote, Richard (*with* Murty, V. Kumar) Zeros and poles of Artin L-series. **89k:11109**
Gross, Benedict H. On the values of abelian L-functions at $s = 0$. **89h:11071**
Halbritter, Ulrich Berechnung der Werte von Zetafunktionen totalreeller kubischer Zahlkörper an ganzzahligen Stellen mittels verallgemeinerter Dedekindscher Summen. II. [Computation of the values of zeta functions of totally real cubic number fields at integer points using generalized Dedekind sums. II] **89c:11164**
Hatada, Kazuyuki Chi-square tests for mod 1 distribution of Fermat and Fibonacci quotients. **89d:11105**
Heath-Brown, D. R. van der Corput bounds for the Dedekind zeta-function. (*see* **89b:11004**)
— The growth rate of the Dedekind zeta-function on the critical line. **89e:11071**
Ishii, Hidenori On the coincidence of L-functions. **89c:11165**
Joyner, David Summation operators and "explicit formulas". **89a:11120**
Klimov, A. I. The divisibility of Dirichlet characters. (Russian) (*see* **89a:11006**)
Lang, Heinrich Über die Restklasse modulo 2^{e+2} des Wertes $2^e n\zeta(1 - 2^e n, \mathfrak{K})$ der Zetafunktion einer Idealklasse aus dem reell-quadratischen Zahlkörper $\mathbf{Q}(\sqrt{D})$ mit $D \equiv 3 \bmod 4$. [On the residue class modulo 2^{e+2} of the value $2^e n\zeta(1 - 2^e n, \mathfrak{K})$ of the zeta function of an ideal class belonging to the real-quadratic number field $\mathbf{Q}(\sqrt{D})$ with $D \equiv 3 \bmod 4$] **89i:11125**
Maknys, M. K. Even moments of Hecke Z-functions. (Russian) **89h:11072**
Moroz, B. Z. Estimates for character sums in number fields. **89g:11109**
— On a class of Dirichlet series associated to the ring of representations of a Weil group. **89k:11110**
Murty, V. Kumar *see* **Foote, Richard, 89k:11109**
Purdy, George (*with* Terras, R.; Terras, Audrey; Williams, Hugh Cowie) Graphing L-functions of Kronecker symbols in the real part of the critical strip. **89k:11111**
Rapoport, M. Comparison of the regulators of Beilinson and of Borel. **89j:11114**
Rosen, Michael Fourier series and special values of Hecke L-functions. **89c:11166**
Sands, Jonathan W. Stark's conjecture and abelian L-functions with higher order zeros at $s = 0$. **89g:11110**
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— Some effective estimates for the roots of the Dirichlet L-series. II. **89m:11080**
Gelbart, Stephen (*with* Shahidi, Freydoon) ★ Analytic properties of automorphic L-functions. **89f:11077**
Girstmair, Kurt Ein v. Staudt-Clausenscher Satz für periodische Bernoullizahlen. (English summary) [A theorem of von Staudt-Clausen type for periodic Bernoulli numbers] **89a:11026**
Gras, Georges Pseudo-mesures p-adiques associées aux fonctions L de $\mathbf{Q}$. (English summary) [p-adic pseudomeasures associated with the L-functions of $\mathbf{Q}$] **89d:11109**
Hayes, David R. The refined $\mathfrak{p}$-adic abelian Stark conjecture in function fields. **89k:11116**
Hejhal, Dennis A. *see* **Bombieri, Enrico, 89c:11136**
Hlawka, Edmund Über die geometrische Reihe von E. Hecke. [On the geometric series of E. Hecke] **89c:11115**

Lachaud, Gilles On real quadratic fields. **89d:11028**
Milne, J. S. Motivic cohomology and values of zeta functions. **89k:14038**
Mollin, R. A. (*with* Williams, Hugh Cowie) A conjecture of S. Chowla via the generalized Riemann hypothesis. **89d:11090**
Odoni, R. W. K. An application of the S-unit theorem to modular forms on $\Gamma_0(N)$. **89j:11044**
Perrin-Riou, Bernadette Points de Heegner et dérivées de fonctions L p-adiques. [Heegner points and derivatives of p-adic L-functions] **89d:11034**
— Fonctions L p-adiques associées à une forme modulaire et à un corps quadratique imaginaire. [p-adic L-functions associated to a modular form and an imaginary quadratic field] **89m:11043**
Schappacher, Norbert ★ Periods of Hecke characters. **89h:11020**
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Snaith, Victor Applications of explicit Brauer induction. **89g:20009**
Tsumura, Hirofumi On a p-adic interpolation of the generalized Euler numbers and its applications. **89k:11121**
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Zagier, Don The remarkable dilogarithm. **89f:33024**

11R44 Distribution of prime ideals [see also 11N05]

Müller, Wolfgang^2 On the distribution of ideals in cubic number fields. **89k:11112**
Tropak, Bogdan Some explicit estimates in algebraic number field. I. **89c:11167**

11R45 Density theorems

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11R47 Other analytic theory

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Igusa, Jun-ichi Zeta distributions associated with some invariants. **89h:11075**
Moroz, B. Z. Equidistribution of Frobenius classes and the volumes of tubes. **89m:11092**
Nowak, Werner Georg Zur Verteilung der quadratfreien Ideale in quadratischen Zahlkörpern. [On the distribution of squarefree ideals in quadratic number fields] **89j:11092**
Orlov, I. N. Estimates in integral distribution laws and algebraic number fields. (Russian. English and Lithuanian summaries) **89i:11093**
Wang, Yuan^1 Bounds for solutions of additive equations in an algebraic number field. II. **89a:11104**

11R52 Quaternion and other division algebras: arithmetic, zeta functions

Kubenskiĭ, M. N. Formulas for the number of representations of numbers by norm forms of quaternion orders. (Russian) **89k:11114**
Raghunathan, M. S. On the group of norm 1 elements in a division algebra. **89g:11111**
Rapinchuk, A. S. The multiplicative arithmetic of division algebras over number fields and the metaplectic problem. **89h:11074**
Rónyai, Lajos Zero divisors in quaternion algebras. (Russian summary) **89c:11168**

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Chernousov, V. I. The projective simplicity of algebraic groups that are split over a quadratic extension of a number field. **89i:20070**
Gross, Benedict H. Heights and the special values of L-series. **89c:11082**
Rapinchuk, A. S. Finite presentability of reduced norms in simple algebras. (English summary) **89f:12004**
Tomanov, G. Sur la structure des groupes algébriques simples de type D_n définis sur des corps de nombres. (English summary) [On the structure of simple algebraic groups of type D_n defined over number fields] **89g:11035**

11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16A18, 16A39]

Chalatsis, A. (*with* Theohari-Apostolidi, Th.) On integral representations of crossed-product orders. **89i:11126**
Ford, David The construction of maximal orders over a Dedekind domain. **89a:11121**
Srivastav, Anupam Swan modules and elliptic functions. **89m:11108**
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Ito, Seiichi *see* **Yamada, Toshihiko, 89h:20009**
Merkur′ev, A. S. The group SK_2 for quaternion algebras. **89e:12009**
Platonov, V. P. (*with* Yanchevskiĭ, V. I.) On the theory of Henselian division algebras. **89c:12002**
Takegahara, Yugen Zeta functions of integral group rings of abelian (p,p)-groups. **89a:20004**
Yamada, Toshihiko (*with* Ito, Seiichi) The degree of a Schur algebra. **89h:20009**
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11R56 Adèle rings and groups

Igusa, Jun-ichi Zeta distributions associated with some invariants. **89h:11075**

11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Cherif, Habib (*with* de Mathan, Bernard) Mesure d'irrationalité de la valeur en 1 de la fonction zeta de Carlitz, relative à $\mathbf{F}_2(\mathrm{T})$. (English summary) [An irrationality measure of the Carlitz zeta function for $\mathbf{F}_2(\mathrm{T})$ at 1] **89b:11093**
Damamme, Gilles (*with* Hellegouarch, Yves) Propriétés de transcendance des valeurs de la fonction zéta de Carlitz. (English summary) [Transcendence properties of the values of Carlitz's zeta function] **89k:11115**
Gaál, István Integral elements with given discriminant. **89c:11169**
Gekeler, Ernst-Ulrich Quasi-periodic functions and Drinfel′d modular forms. **89m:11109**
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Green, Barry On the Riemann-Roch theorem for orders in the ring of valuation vectors of a function field. **89d:11107**
Hayes, David R. The refined $\mathfrak{p}$-adic abelian Stark conjecture in function fields. **89k:11116**
Hellegouarch, Yves (*with* McQuillan, D. L.; Paysant-Le Roux, R.) Unités de certains sous-anneaux des corps de fonctions algébriques. [Units of certain subrings of algebraic function fields] **89g:11112**
— Notions de base pour l'arithmétique de $\mathbf{F}_q((1/t))$. [Basic notions for the arithmetic of $\mathbf{F}_q((1/t))$] **89m:11110**
— *see also* **Damamme, Gilles, 89k:11115**
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de Mathan, Bernard *see* **Cherif, Habib, 89b:11093**
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Rosen, Michael The Hilbert class field in function fields. **89b:11094**
Thakur, Dinesh S. Gauss sums for $\mathbf{F}_q[T]$. **89i:11127**
Villa Salvador, Gabriel D. (*with* Madan, Manohar L.) On an analogue of a conjecture of Gross. **89h:11076**
Voronovich, I. I. A local-global principle for algebras over fields of rational functions. (Russian. English summary) **89a:11122**
Zhang, Xian Ke Ambiguous classes and 2-rank of class group of quadratic function field. (Chinese summary) **89j:11115**

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Asada, Mamoru On the action of the Frobenius automorphism on the pro-l fundamental group. **89k:14019**
Drinfel′d, V. G. Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**
Gekeler, Ernst-Ulrich On the coefficients of Drinfel′d modular forms. **89g:11043**
— On power sums of polynomials over finite fields. **89k:11122**
Ihara, Yasutaka Some problems on three-point ramifications and associated large Galois representations. **89f:11078**
İşcan, Hülya The solution of the class number 3 problem. (Turkish. English summary) **89a:11115**
Kodama, Tetsuo (*with* Washio, Tadashi) Hasse-Witt matrices of Fermat curves. **89b:14042**
Mestre, Jean-François Courbes hyperelliptiques à multiplications réelles. (English summary) [Hyperelliptic curves with real multiplication] **89k:11106**
Stöhr, Karl-Otto On singular primes in function fields. **89c:14041**
Washio, Tadashi *see* **Kodama, Tetsuo, 89b:14042**

11R70 K-theory of global fields [see also 19Fxx]

Feng, Ke Qin On the Birch-Tate conjecture for cyclic number fields. **89b:11095**
Kolster, Manfred The structure of the 2-Sylow subgroup of $K_2(\mathfrak{o})$. II. **89h:11077**
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Clauwens, F. J. B. J. K-theory, λ-rings, and formal groups. **89c:18010**
Kang, Ming Chang *see* **Chu, Hua; et al., 89d:11101**
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11R80 Totally real and totally positive fields [see also 12J15]

Items with secondary classifications in 11R80

Colmez, Pierre Résidu en $s = 1$ des fonctions zêta p-adiques. [The residue at $s = 1$ of p-adic zeta functions] **89d:11104**
Halbritter, Ulrich Berechnung der Werte von Zetafunktionen totalreeller kubischer Zahlkörper an ganzzahligen Stellen mittels verallgemeinerter Dedekindscher Summen. II.

[Computation of the values of zeta functions of totally real cubic number fields at integer points using generalized Dedekind sums. II] **89c:11164**
Rausch, Ulrich Geometrische Reihen in algebraischen Zahlkörpern. [Geometric series in algebraic number fields] **89b:11074**
Wiles, A. On ordinary λ-adic representations associated to modular forms. **89j:11051**

11R99 None of the above, but in this section

Johnson, P. D., Jr. Two-colorings of real quadratic extensions of Q^2 that forbid many distances. **89f:11159**

Items with secondary classifications in 11R99
Turnwald, G. On a problem concerning permutation polynomials. **89a:11128**
Vivaldi, Franco Arithmetical theory of Anosov diffeomorphisms. **89a:58090**

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11S05 Polynomials

Items with secondary classifications in 11S05
Igusa, Jun-ichi Some aspects of the arithmetic theory of polynomials. **89e:11074**
Panaitopol, L. (*with* Ştefănescu, D.) On the Eisenstein's criterion. **89g:12008**
Ştefănescu, D. *see* **Panaitopol, L., 89g:12008**

11S10 Units

Items with secondary classifications in 11S10
Vostokov, S. V. A remark on the space of cyclotomic units. **89f:11150**

11S15 Ramification and extension theory

Hyodo, Osamu Wild ramification in the imperfect residue field case. **89j:11116**
Kato, Kazuya Swan conductors with differential values. **89k:11117**
Miyata, Yoshimasa Vertices of ideals of a p-adic number field. **89c:11170**
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Hijikata, Hiroaki Linear representations of the Galois group over local fields. **89i:11128**
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Krasner, Marc Local differents of algebraic and finite extensions of valued fields. **89d:12004**

11S20 Galois theory

Hijikata, Hiroaki Linear representations of the Galois group over local fields. **89i:11128**
Repka, Joe Quadratic subfields of quartic extensions of local fields. **89b:11096**
Ritter, Jürgen An explicit Brauer formula for local Galois characters. **89a:11124**
Sen, Shankar Integral representations associated with p-adic field extensions. **89j:11117**

Items with secondary classifications in 11S20
Cram, G.-Martin The multiplicative group of a local skew field as Galois group. **89b:11099**
Riehm, C. The Schur subgroup of the Brauer group of a local field. **89m:11113**

11S23 Integral representations

Hoechsmann, Klaus (*with* Ritter, Jürgen) Logarithms and units in p-adic abelian group rings. **89b:11097**
Ritter, Jürgen *see* **Hoechsmann, Klaus, 89b:11097**

Items with secondary classifications in 11S23
Koseki, Harutaka On the common kernel of certain symmetric tensor representations. **89j:11060**
Miyata, Yoshimasa Vertices of ideals of a p-adic number field. **89c:11170**
Weiss, Alfred R. Rigidity of p-adic p-torsion. **89g:20010**

11S25 Galois cohomology [see also 12Gxx, 16A16]

Kurihara, Masato Abelian extensions of an absolutely unramified local field with general residue field. **89k:11118**
Riehm, C. The Schur subgroup of the Brauer group of a local field. **89m:11113**

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Riehm, C. The Schur subgroup of the Brauer group of cyclotomic rings of integers. **89c:13005**
Touibi, C. Groupe de Brauer d'une courbe de Tate. [The Brauer group of a Tate curve] **89k:11045**
Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**

11S31 Class field theory; p-adic formal groups

Fesenko, I. B. *see* **Vostokov, S. V., 89f:11160**
Fujiwara, Yasushi On Galois actions on p-power torsion points of some one-dimensional formal groups over $\mathbf{F}_p[[t]]$. **89g:11114**
Helou, Charles An explicit 2^nth reciprocity law. **89e:11072**
Vostokov, S. V. (*with* Fesenko, I. B.) A property of the Hilbert pairing. **89f:11160**

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Kato, Kazuya Swan conductors with differential values. **89k:11117**
Riehm, C. The Schur subgroup of the Brauer group of a local field. **89m:11113**
Sen, Shankar Integral representations associated with p-adic field extensions. **89j:11117**
Souto Menéndez, José M. On a theorem due to Cassels. **89j:11056**
Stienstra, Jan Formal groups and congruences for L-functions. **89e:14020**
Vostokov, S. V. A remark on the space of cyclotomic units. **89f:11150**
Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**
Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**
Zimmermann, Karl Frederic Galois endomorphisms of the torsion subgroup of one-parameter generic formal groups. **89b:14063**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Andler, Martin Relationships of divisibility between local L-functions associated to representations of complex reductive groups. **89c:11171**
Flicker, Yuval Z. Stable base change for spherical functions. **89b:11098**
Langlands, R. P. (*with* Shelstad, D.) On the definition of transfer factors. **89c:11172**
Shelstad, D. *see* **Langlands, R. P., 89c:11172**
Snaith, Victor A construction of the Deligne-Langlands local root numbers of orthogonal Galois representations. **89k:11119**
Zink, Ernst-Wilhelm Representation filters and their application in the theory of local fields. **89i:11129**

Items with secondary classifications in 11S37
Blasius, Don (*with* Clozel, Laurent; Ramakrishnan, Dinakar) Opérateurs de Hecke et formes de Maass: application de la formule des traces. (English summary) [Hecke operators and Maass forms: application of the trace formula] **89g:11042**
Clozel, Laurent *see* **Blasius, Don; et al., 89g:11042**
Corwin, Lawrence Approximation of prime elements in division algebras over local fields and unitary representations of the multiplicative group. **89c:11173**
Cram, G.-Martin The multiplicative group of a local skew field as Galois group. **89b:11099**
Deligne, P. (*with* Husemoller, Dale) Survey of Drinfel′d modules. **89f:11081**
Flicker, Yuval Z. On endo-lifting. **89k:22033**
Gelbart, Stephen (*with* Piatetski-Shapiro, Ilja Iosifovitch; Rallis, Stephen) ★ Explicit constructions of automorphic L-functions. **89k:11038**
Ginzburg, V. A. A proof of the Deligne-Langlands conjecture. (Russian) **89a:22031**
Hijikata, Hiroaki Linear representations of the Galois group over local fields. **89i:11128**
Husemoller, Dale *see* **Deligne, P., 89f:11081**
Kutzko, P. C. On the supercuspidal representations of GL_N and other p-adic groups. **89h:22038**
Mœglin, C. (*with* Waldspurger, Jean-Loup) Modèles de Whittaker dégénérés pour des groupes p-adiques. [Degenerate Whittaker models for p-adic groups] **89f:22024**
Piatetski-Shapiro, Ilja Iosifovitch *see* **Gelbart, Stephen; et al., 89k:11038**
Rallis, Stephen *see* **Gelbart, Stephen; et al., 89k:11038**
Ramakrishnan, Dinakar *see* **Blasius, Don; et al., 89g:11042**
Ritter, Jürgen An explicit Brauer formula for local Galois characters. **89a:11124**
Snaith, Victor Applications of explicit Brauer induction. **89g:20009**
Waldspurger, Jean-Loup *see* **Mœglin, C., 89f:22024**
Zink, Ernst-Wilhelm U^1-Konjugationsklassen in lokalen Divisionsalgebren. [U^1-conjugacy classes in local division algebras] **89m:11114**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Colmez, Pierre Résidu en $s=1$ des fonctions zêta p-adiques. (English summary) [Residue at $s=1$ of p-adic zeta functions] **89g:11115**
Denef, J. On the degree of Igusa's local zeta function. **89d:11108**
Gras, Georges Pseudo-mesures p-adiques associées aux fonctions L de Q. (English summary) [p-adic pseudomeasures associated with the L-functions of Q] **89d:11109**
Hida, Haruzo A p-adic measure attached to the zeta functions associated with two elliptic modular forms. II. **89k:11120**
Igusa, Jun-ichi On the arithmetic of a singular invariant. **89g:11116**
Loeser, François Fonctions d'Igusa p-adiques et polynômes de Bernstein. [p-adic Igusa functions and Bernstein polynomials] **89d:11110**
Metsänkylä, Tauno A characterization of the λ-invariant of a p-adic L-function. **89g:11117**
Tsumura, Hirofumi On a p-adic interpolation of the generalized Euler numbers and its applications. **89k:11121**

Items with secondary classifications in 11S40
Agoh, Takashi On Bernoulli and Euler numbers. **89i:11030**
Coleman, Robert F. (*with* de Shalit, Ehud) p-adic regulators on curves and special values of p-adic L-functions. **89k:11041**
Gelbart, Stephen (*with* Shahidi, Freydoon) ★ Analytic properties of automorphic L-functions. **89f:11077**
Maeda, Yoshitaka Generalized Bernoulli numbers and congruence of modular forms. **89m:11042**
Rosen, Michael Fourier series and special values of Hecke L-functions. **89c:11166**
Shahidi, Freydoon *see* **Gelbart, Stephen, 89f:11077**
de Shalit, Ehud *see* **Coleman, Robert F., 89k:11041**
Snaith, Victor Applications of explicit Brauer induction. **89g:20009**

11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16A18, 16A39]

Chalatsis, A. (*with* Theohari-Apostolidi, Th.) Maximal orders containing local crossed-products. **89h:11078**

Corwin, Lawrence Approximation of prime elements in division algebras over local fields and unitary representations of the multiplicative group. **89c:11173**
Khalin, V. G. Minimal representation of an element in the Brauer group of a multidimensional local field. (Russian. English summary) **89c:11174**
Theohari-Apostolidi, Th. *see* **Chalatsis, A., 89h:11078**
Zink, Ernst-Wilhelm U^1-Konjugationsklassen in lokalen Divisionsalgebren. [U^1-conjugacy classes in local division algebras] **89m:11114**

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Chalatsis, A. (*with* Theohari-Apostolidi, Th.) On integral representations of crossed-product orders. **89i:11126**
Fröhlich, Albrecht Module defect and factorisability. **89g:11108**
Platonov, V. P. (*with* Yanchevskiĭ, V. I.) Finite-dimensional Henselian division algebras. **89j:12004**
Prasad, Gopal (*with* Raghunathan, M. S.) Topological central extensions of $\mathrm{SL}_1(D)$. **89e:22018**
Raghunathan, M. S. *see* **Prasad, Gopal, 89e:22018**
Riehm, C. The Schur subgroup of the Brauer group of a local field. **89m:11113**
Theohari-Apostolidi, Th. *see* **Chalatsis, A., 89i:11126**
Yanchevskiĭ, V. I. *see* **Platonov, V. P., 89j:12004**

11S70 *K*-theory of local fields

Items with secondary classifications in 11S70

Suslin, A. A. The Beĭlinson spectral sequence for the *K*-theory of the field of real numbers. (Russian) **89i:12005**

11S75 Valuation theory

Items with secondary classifications in 11S75

Matignon, Michel Genre et genre résiduel des corps de fonctions valués. (English summary) [Genus and residue genus of function fields with valuation] **89a:11063**
Revoy, Philippe Niveaux d'ordre supérieur des corps et des anneaux. (English summary) [Higher-order levels of fields and rings] **89k:11025**

11S80 Other analytic theory (analogues of beta and gamma functions, *p*-adic integration, etc.)

Anderson, Greg W. The hyperadelic gamma function: a précis. **89m:11115**
— The hyperadelic gamma function. **89j:11118**
Bollaerts, Dirk On the Poincaré series associated to the *p*-adic points on a curve. **89i:11130**
Coleman, Robert F. The Gross-Koblitz formula. **89e:11073**
Diarra, Bertin Fonction Γ *p*-adique. [*p*-adic Γ-functions] **89c:11175**
Igusa, Jun-ichi Some aspects of the arithmetic theory of polynomials. **89e:11074**
Nakazato, Hajime The *q*-analogue of the *p*-adic gamma function. **89e:11075**

Items with secondary classifications in 11S80

Borm, G. F. *p*-adic Fourier transforms. **89f:42023**
Coster, Matthijs Generalisation of a congruence of Gauss. **89i:11005**
Goss, David The Γ-function in the arithmetic of function fields. **89d:11106**
Knopfmacher, Arnold (*with* Knopfmacher, John) A product expansion in *p*-adic and other non-Archimedean fields. **89f:11094**
Knopfmacher, John *see* **Knopfmacher, Arnold, 89f:11094**
Li, Wen-Ch'ing Winnie Various aspects of the Barnes' identity. **89i:11112**
Loeser, François Évaluation d'intégrales et théorie de Hodge. [Evaluation of integrals, and Hodge theory] **89a:32008**
Panchishkin, A. A. Convolutions of Hilbert modular forms and their non-Archimedean analogues. (Russian) **89k:11033**
— Non-Archimedean Rankin *L*-functions and their functional equations. **89j:11046**
Tsumura, Hirofumi On a *p*-adic interpolation of the generalized Euler numbers and its applications. **89k:11121**

11S85 Other nonanalytic theory

Cram, G.-Martin The multiplicative group of a local skew field as Galois group. **89b:11099**

Items with secondary classifications in 11S85

Adolphson, Alan (*with* Sperber, Steven) *p*-adic estimates for exponential sums and the theorem of Chevalley-Warning. **89d:11112**
Coleman, Robert F. The Gross-Koblitz formula. **89e:11073**
Sperber, Steven *see* **Adolphson, Alan, 89d:11112**

11S99 None of the above, but in this section

Shimada, Tutomu A note on power series representations in local fields. **89i:11131**

11Txx Finite fields and commutative rings (number-theoretic aspects)

Lidl, R. (*with* Niederreiter, Harald) ★ Конечные поля. Том 1. (Russian) [Finite fields. Vol. 1] **89h:11079a**
— (*with* Niederreiter, Harald) ★ Конечные поля. Том 2. (Russian) [Finite fields. Vol. 2] **89h:11079b**
(Nechaev, V. I.) *see* **Lidl, R., 89h:11079a** *and* **89h:11079b**
Niederreiter, Harald *see* **Lidl, R., 89h:11079a** *and* **89h:11079b**
(Petrov, V. I.) *see* **Lidl, R., 89h:11079a** *and* **89h:11079b**
(Zhukov, A. E.) *see* **Lidl, R., 89h:11079a** *and* **89h:11079b**

11T06 Polynomials: irreducibility, factorization, distribution of values

Brawley, J. V. (*with* Carlitz, L.) Irreducibles and the composed product for polynomials over a finite field. **89g:11118**
Car, Mireille Un problème de diviseurs dans $\mathbf{F}_q[X]$. [A problem of divisors in $\mathbf{F}_q[X]$] **89m:11116**
Carlitz, L. *see* **Brawley, J. V., 89g:11118**
Chou, Wun-Seng Binomial permutations of finite fields. **89m:11117**
Cohen, Stephen D. Functions and polynomials in vector spaces. **89f:11161**
— Polynomials over finite fields with large order and level. **89a:11125**
Effinger, Gove A Goldbach 3-primes theorem for polynomials of low degree over finite fields of characteristic 2. **89j:11119**
Fried, M. (*with* Lidl, R.) On Dickson polynomials and Rédei functions. **89e:11076**
von zur Gathen, Joachim Irreducible polynomials over finite fields. **89c:11176**
— Factoring polynomials and primitive elements for special primes. **89a:11126**
Gekeler, Ernst-Ulrich On power sums of polynomials over finite fields. **89k:11122**
Gennero, M. C. *see* **Poli, A., 89h:11082**
Golovanov, P. N. (*with* Solodovnikov, V. I.) Rapid parallel calculation of degrees in a quotient ring of polynomials over a finite field. (Russian) **89h:11080**
Gomez-Calderon, Javier (*with* Madden, Daniel J.) Polynomials with small value set over finite fields. **89d:11111**
James, N. S. (*with* Lidl, R.) Permutation polynomials on matrices. **89e:11077**
Kyuregyan, M. K. An application of a theorem of Varshamov. (Russian. Armenian summary) **89f:11162**
— On the theory of the reducibility of polynomials over finite fields. (Russian. Armenian summary) **89i:11132**
Lidl, R. *see* **Fried, M., 89e:11076** *and* **James, N. S., 89e:11077**
Lomadze, N. G. Formally self-dual polynomials. **89i:11133**
Madden, Daniel J. *see* **Gomez-Calderon, Javier, 89d:11111**
Marenich, E. E. The number of irreducible polynomials over a finite field. (Russian) **89a:11127**
Mignotte, Maurice (*with* Schnorr, C.-P.) Calcul déterministe des racines d'un polynôme dans un corps fini. (English summary) [Deterministic computation of the roots of polynomials over finite fields] **89i:11134**
Moreno, Oscar Discriminants and the irreducibility of a class of polynomials in a finite field of arbitrary characteristic. **89e:11078**
Mullen, Gary L. (*with* Vaughan, Theresa P.) Cycles of linear permutations over a finite field. **89m:11118**
Nijmeijer, Markus (*with* Staring, Mike) A formula that produces all, and nothing but, irreducible polynomials in $Z_p[x]$. **89h:11081**
Nöbauer, Rupert Rédei-permutationen endlicher Körper. [Rédei permutations of finite fields] **89k:11123**
Nöbauer, Wilfried Über die Konjugierten der Dickson-Permutationen. [On the conjugates of Dickson permutations] **89m:11125**
Poli, A. (*with* Gennero, M. C.) FAST16: a software program for factorising polynomials over large GF(p). **89h:11082**
Reutenauer, Christophe Mots circulaires et polynômes irréductibles. (English summary) [Circular words and irreducible polynomials] **89m:11119**
Rónyai, Lajos A note on factoring polynomials modulo special primes. **89g:11119**
— Factoring polynomials over finite fields. **89k:11124**
Schnorr, C.-P. *see* **Mignotte, Maurice, 89i:11134**
Schoenwaelder, Ulrich Irreducible factors of psi-polynomials over finite fields. **89m:11120**
Semaev, I. A. Construction of polynomials, irreducible over a finite field, with linearly independent roots. **89i:11135**
Shparlinskiĭ, I. E. Polynomials of given height in finite fields. **89f:11163**
Sidel′nikov, V. M. On normal bases of a finite field. **89h:11083**
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Steinberg, Robert On Dickson's theorem on invariants. **89c:11177**
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Wan, Da Qing Permutation polynomials over finite fields. **89b:11100**
— On a conjecture of Carlitz. **89c:11178**

Items with secondary classifications in 11T06

Lempel, Abraham (*with* Weinberger, Marcelo J.) Self-complementary normal bases in finite fields. **89i:11137**
Nöbauer, Wilfried Some remarks on permutable chains of polynomials. **89c:11039**
Schwarz, Štefan Irreducible polynomials over finite fields with linearly independent roots. (Russian summary) **89e:11079**
Singh, Surjeet A note on linear recurring sequences. **89i:11022**
Soublin, Jean-Pierre ★ Nombre de points d'une courbe sur un corps fini. (French) [The number of points on a curve over a finite field] **89c:11101**
Weinberger, Marcelo J. *see* **Lempel, Abraham, 89i:11137**

11T21 Cyclotomy, exponential sums; Gaussian and character sums

Adolphson, Alan (*with* Sperber, Steven) Twisted Kloosterman sums and *p*-adic Bessel functions. II. Newton polygons and analytic continuation. **89b:11101**
— (*with* Sperber, Steven) *p*-adic estimates for exponential sums and the theorem of Chevalley-Warning. **89d:11112**
Greene, John Lagrange inversion over finite fields. **89a:11129**
Han, Wen Bao On counting absolute trace of powers in GF(p^m). **89m:11121**
Irk, Sıtkı Gaussian operators. (Turkish summary) **89g:11120**
Litsyn, S. N. *see* **Zinov′ev, V. A., 89i:11136**
Nemchenok, Jacob A note on integral matrices associated to finite fields. **89k:11125**
Sperber, Steven *see* **Adolphson, Alan, 89b:11101** *and* **89d:11112**

Zinov′ev, V. A. (*with* Litsyn, S. N.) Lower bounds on complete rational trigonometric sums. **89i:11136**

Items with secondary classifications in 11T21

Cohen, Stephen D. Polynomials over finite fields with large order and level. **89a:11125**
Livné, Ron The average distribution of cubic exponential sums. **89f:11116**
Moriah, Yoav Heegaard splittings of Seifert fibered spaces. **89d:57010**
Uehara, Tsuyoshi On a congruence relation between Jacobi sums and cyclotomic units. **89a:11113**

11T30 Structure theory

Glover, N. *see* **Hsu, I.-S.; et al., 89b:11102**
Hsu, I.-S. (*with* Truong, T. K.; Reed, I. S.; Glover, N.) A VLSI architecture for performing finite field arithmetic with reduced table lookup. **89b:11102**
Lempel, Abraham Characterization and synthesis of self-complementary normal bases in finite fields. **89k:11126**
— (*with* Weinberger, Marcelo J.) Self-complementary normal bases in finite fields. **89i:11137**
Li, Fu Zhong On the conjecture of Golomb. II. (Chinese summary) **89b:11103**
Reed, I. S. *see* **Hsu, I.-S.; et al., 89b:11102**
Schwarz, Štefan Irreducible polynomials over finite fields with linearly independent roots. (Russian summary) **89e:11079**
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Wiedemann, Doug An iterated quadratic extension of GF(2). **89m:11122**

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Shparlinskiĭ, I. E. *see* **Stepanov, S. A., 89b:12008**
Sidel′nikov, V. M. On normal bases of a finite field. **89h:11083**
Stepanov, S. A. (*with* Shparlinskiĭ, I. E.) Construction of a normal basis of a finite field. (Russian) **89b:12008**
Wang, Ju Ping The character of primitive roots of $Z/(p^\alpha)$ and Golomb's conjecture. (Chinese) **89f:11014**

11T35 Matrices and determinants

Items with secondary classifications in 11T35

Gorgui-Naguib, R. N. (*with* King, Robert A.) Comments on: "Matrix processors using p-adic arithmetic for exact linear computations" [IEEE Trans. Comput. **26** (1977), no. 7, 633–639; MR **57** #7963] by E. V. Krishnamurthy. **89f:68024**
King, Robert A. *see* **Gorgui-Naguib, R. N., 89f:68024**
Kovacs, Amos Products of matrices over a finite field. **89j:15028**
(Krishnamurthy, E. V.) *see* **Gorgui-Naguib, R. N., 89f:68024**
Purdy, George (*with* Terras, R.; Terras, Audrey; Williams, Hugh Cowie) Graphing L-functions of Kronecker symbols in the real part of the critical strip. **89k:11111**
Stitzinger, Ernest L. The probability that a linear system is consistent. **89h:94010**
Terras, Audrey *see* **Purdy, George; et al., 89k:11111**
Terras, R. *see* **Purdy, George; et al., 89k:11111**
Williams, Hugh Cowie *see* **Purdy, George; et al., 89k:11111**

11T41 Equations

Wan, Da Qing Zeros of diagonal equations over finite fields. **89i:11138**
Wang, Ju Ping On Golomb's conjectures. **89m:11123**

11T55 Polynomial domains over finite fields

Müller, Winfried B. (*with* Nöbauer, Rupert) Über ganzzahlige Vertauschbarkeitsketten ungeraden Grades. [On integer permutability chains of odd degree] **89m:11124**
Nöbauer, Rupert *see* **Müller, Winfried B., 89m:11124**

Items with secondary classifications in 11T55

Goss, David The Γ-function in the arithmetic of function fields. **89d:11106**
Nöbauer, Wilfried Über die Konjugierten der Dickson-Permutationen. [On the conjugates of Dickson permutations] **89m:11125**

11T71 Algebraic coding theory; cryptography

(Āryabhaṭa) *see* **Kak, Subhash, 89f:11165**
Driencourt, Yves Un exemple de codes géométriques: les codes elliptiques. (English summary) [An example of geometric codes: the elliptic codes] **89c:11179**
Hansen, Johan P. Codes on the Klein quartic, ideals, and decoding. **89f:11164**
Kak, Subhash The Āryabhaṭa cipher. **89f:11165**
Lobstein, Antoine On modular weights in arithmetic codes. (French summary) **89i:11139**
Niederreiter, Harald Cryptology—the mathematical theory of data security. **89g:11121**
Pollard, John M. (*with* Schnorr, C.-P.) An efficient solution of the congruence $x^2 + ky^2 = m \pmod{n}$. **89e:11080**
van Ravesteijn, R. L. A. (*with* de Vroedt, C.) A direct proof of the weight retaining property of polynomials over a finite field. **89m:11126**
Schnorr, C.-P. *see* **Pollard, John M., 89e:11080**
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van Wee, Gerhard J. M. Improved sphere bounds on the covering radius of codes. **89e:11081**

Items with secondary classifications in 11T71

Alexi, Werner (*with* Chor, Benny; Goldreich, Oded; Schnorr, C.-P.) RSA and Rabin functions: certain parts are as hard as the whole. **89j:11120**
Bezzateev, S. V. (*with* Shekhunova, N. A.) The constructive distance of the best of the known (55, 16, 19) Goppa codes. (Russian) **89k:94056**
Bier, Thomas A family of nonbinary linear codes. **89g:94027**
Brassard, Gilles ★ Modern cryptology. **89k:94042**
Chakravarti, I. M. The generalized Goppa codes and related discrete designs from Hermitian surfaces in $PG(3, s^2)$. **89m:94017**
Chor, Benny (*with* Rivest, Ronald L.) A knapsack-type public key cryptosystem based on arithmetic in finite fields. **89k:94043**
— *see also* **Alexi, Werner; et al., 89j:11120**
Coppersmith, Don Methods and results in cryptography. **89k:94044**
Dodunekov, Stefan M. (*with* Helleseth, T.; Manev, N.; Ytrehus, Ø.) New bounds on binary linear codes of dimension eight. **89f:94021**
(Drenski, Veselin S.) *see* **Wolfmann, Jacques, 89f:94020**
Fried, M. (*with* Lidl, R.) On Dickson polynomials and Rédei functions. **89e:11076**
Frieze, A. M. (*with* Håstad, Johan; Kannan, Ravindran; Lagarias, J. C.; Shamir, Adi) Reconstructing truncated integer variables satisfying linear congruences. **89d:11115**
Fujioka, Atsushi *see* **Tsujii, Shigeo; et al., 89g:94026**
Glover, N. *see* **Hsu, I.-S.; et al., 89b:11102**
Goldreich, Oded *see* **Alexi, Werner; et al., 89j:11120**
Goldwasser, Shafi (*with* Micali, Silvio; Rivest, Ronald L.) A digital signature scheme secure against adaptive chosen-message attacks. **89e:94009**
Grollmann, Joachim (*with* Selman, Alan L.) Complexity measures for public-key cryptosystems. **89h:68050**
Harari, Sami Application des codes correcteurs au partage du secret. [Applying correcting codes to secret sharing] **89g:94025**
Håstad, Johan Solving simultaneous modular equations of low degree. **89e:68049**
— *see also* **Frieze, A. M.; et al., 89d:11115**
Heise, Werner (*with* Quattrocchi, Pasquale) The equivalence theorem for cyclic codes. (Italian. English summary) **89d:94044**
— (*with* Quattrocchi, Pasquale) The algebraic theory of codes. (Italian) **89b:94027**
Helleseth, T. *see* **Dodunekov, Stefan M.; et al., 89f:94021**
Honkala, Iiro S. Lower bounds for binary covering codes. **89f:94031**
Hsu, I.-S. (*with* Truong, T. K.; Reed, I. S.; Glover, N.) A VLSI architecture for performing finite field arithmetic with reduced table lookup. **89b:11102**
Huffman, W. Cary (*with* Ĭorgov, Vasil Ĭ.) A [72, 36, 16] doubly even code does not have an automorphism of order 11. **89a:94021**
Huthnance, E. Dennis (*with* Warndof, Joe) On using primes for public key encryption systems. **89k:94046**
Ĭorgov, Vasil Ĭ. *see* **Huffman, W. Cary, 89a:94021**
Ito, Toshiya *see* **Kurosawa, Kaoru; et al., 89k:94049**
Itoh, Toshiya (*with* Tsujii, Shigeo) A fast algorithm for computing multiplicative inverses in $GF(2^m)$ using normal bases. **89j:11121**
— *see also* **Tsujii, Shigeo; et al., 89g:94026**
Jamnig, Peter Securing the RSA-cryptosystem against cycling attacks. **89k:94047**
Kaliski, Burton S., Jr. A pseudorandom bit generator based on elliptic logarithms. **89c:94032**
Kaneta, Hitoshi *see* **Maruta, Tatsuya; et al., 89j:94029**
Kannan, Ravindran *see* **Frieze, A. M.; et al., 89d:11115**
Kasami, Tadao (*with* Lin, Shu) The binary weight distribution of the extended $(2^m, 2^m - 4)$ code of the Reed-Solomon code over $GF(2^m)$ with generator polynomial $(x-\alpha)(x-\alpha^2)(x-\alpha^3)$. **89k:93016**
Kikumasa, Isao *see* **Maruta, Tatsuya; et al., 89j:94029**
Koch, Helmut V. Unimodular lattices and self-dual codes. **89e:11036**
Kranakis, Evangelos ★ Primality and cryptography. **89g:11124**
Kurosawa, Kaoru (*with* Ito, Toshiya; Takeuchi, Masashi) Public key cryptosystem using a reciprocal number with the same intractability as factoring a large number. **89k:94049**
— *see also* **Tsujii, Shigeo; et al., 89g:94026**
Lachaud, Gilles (*with* Wolfmann, Jacques) Sommes de Kloosterman, courbes elliptiques et codes cycliques en caractéristique 2. (English summary) [Kloosterman sums, elliptic curves and cyclic codes in characteristic 2] **89c:14031**
— Projective Reed-Muller codes. (French summary) **89i:94038**
Lagarias, J. C. (*with* Reeds, James A.) Unique extrapolation of polynomial recurrences. **89c:11025**
— *see also* **Frieze, A. M.; et al., 89d:11115**
Le Brigand, D. A [32, 17, 14]-geometric code coming from a singular curve. (French summary) **89k:94076**
— (*with* Risler, Jean-Jacques) Algorithme de Brill-Noether et codes de Goppa. (English summary) [The Brill-Noether algorithm and Goppa codes] **89k:14040**
Lenstra, H. W., Jr. Codes from algebraic number fields. **89a:11132**
Lidl, R. *see* **Fried, M., 89e:11076**
Lin, Shu *see* **Kasami, Tadao, 89k:93016**
Manev, N. *see* **Dodunekov, Stefan M.; et al., 89f:94021**
Maruta, Tatsuya (*with* Kikumasa, Isao; Kaneta, Hitoshi) Singleton arrays in coding theory. **89j:94029**
Matsumoto, Tsutomu *see* **Tsujii, Shigeo; et al., 89g:94026**
McCurley, Kevin S. A key distribution system equivalent to factoring. **89k:94050**
Micali, Silvio *see* **Goldwasser, Shafi; et al., 89e:94009**
Movsisyan, G. L. Asymptotic estimates for the radius of the covering of a code. (Russian. Armenian summary) (Not in MR)
Müller, Winfried B. (*with* Nöbauer, Rupert) Über ganzzahlige Vertauschbarkeitsketten ungeraden Grades. [On integer permutability chains of odd degree] **89m:11124**
Niederreiter, Harald Continued fractions for formal power series, pseudorandom numbers, and linear complexity of sequences. **89e:11047**
Nöbauer, Rupert *see* **Müller, Winfried B., 89m:11124**
Opolka, H. The finite Fourier-transform as a modular substitution. **89j:11052**
— Embedding self-dual codes into projective space. (*see* **89b:94002**)
Quattrocchi, Pasquale *see* **Heise, Werner, 89b:94027** *and* **89d:94044**
Reed, I. S. *see* **Hsu, I.-S.; et al., 89b:11102**
Reeds, James A. *see* **Lagarias, J. C., 89c:11025**
Remijn, J. C. C. M. (*with* Tiersma, H. J.) A duality theorem for the weight distribution of some cyclic codes. **89k:94067**
Risler, Jean-Jacques *see* **Le Brigand, D., 89k:14040**

Rivest, Ronald L. *see* **Goldwasser, Shafi; et al., 89e:94009** *and* **Chor, Benny, 89k:94043**
Rubin, Frank The cryptographic uses of Post tag systems. **89e:94010**
Salwach, Chester J. Codes that detect and correct errors. **89k:94062**
Schnorr, C.-P. *see* **Alexi, Werner; et al., 89j:11120**
Selman, Alan L. *see* **Grollmann, Joachim, 89h:68050**
Shamir, Adi *see* **Frieze, A. M.; et al., 89d:11115**
Shekhunova, N. A. *see* **Bezzateev, S. V., 89k:94056**
Simonis, Juriaan The minimal covering radius $t[15,6]$ of a six-dimensional binary linear code of length 15 is equal to 4. **89k:94063**
Smeets, Bernard J. M. Some results on the Herlestam-Johannesson algorithm for computing logarithms over GF(2^p). **89h:11087**
Solé, Patrick The Lee association scheme. **89j:94033**
Stitzinger, Ernest L. The probability that a linear system is consistent. **89h:94010**
Takeuchi, Masashi *see* **Kurosawa, Kaoru; et al., 89k:94049**
Tiersma, H. J. *see* **Remijn, J. C. C. M., 89k:94067**
Truong, T. K. *see* **Hsu, I.-S.; et al., 89b:11102**
Tsujii, Shigeo (*with* Itoh, Toshiya; Fujioka, Atsushi; Kurosawa, Kaoru; Matsumoto, Tsutomu) A public-key cryptosystem based on the difficulty of solving a system of nonlinear equations. **89g:94026**
— *see also* **Itoh, Toshiya, 89j:11121**
Voloch, J. F. ★ Códigos corretores de erros. (Portuguese) [Error-correcting codes] **89j:94001**
Vyskoč, Jozef Partial information in public key cryptography. **89i:68026**
Ward, Harold N. Coding theory and representation theory. **89c:94036**
Warndof, Joe *see* **Huthnance, E. Dennis, 89k:94046**
Wolfmann, Jacques Évariste Galois and the planet Mars: introduction to algebraic coding theory. (Bulgarian) **89f:94020**
— *see also* **Lachaud, Gilles, 89c:14031**
Xie, Shen Quan The complexity of a periodic sequence over GF(p). **89k:94052**
Ytrehus, Ø. *see* **Dodunekov, Stefan M.; et al., 89f:94021**
Zeng, Ken Cheng Cryptography and mathematics. (Chinese) **89j:00047**

11T99 None of the above, but in this section

Carlitz, L. On the power series expansion of a certain function over a field of characteristic p. **89g:11122**
Leep, David B. (*with* Shapiro, Daniel B.) Multiplicative subgroups of index three in a field. **89m:11127**
Shapiro, Daniel B. *see* **Leep, David B., 89m:11127**

Items with secondary classifications in 11T99

Boyarinov, I. M. Systolic and semisystolic calculations in GF(2^m). (Russian) **89c:11182**
Gagliardo, Emilio Musical styles guided by mathematical generalizations of tonality. (Italian. English summary) **89k:00001**
von zur Gathen, Joachim Computing powers in parallel. **89j:68060**
Hellegouarch, Yves Notions de base pour l'arithmétique de $\mathbf{F}_q((1/t))$. [Basic notions for the arithmetic of $\mathbf{F}_q((1/t))$] **89m:11110**
Mesirov, Jill P. (*with* Sweet, Melvin M.) Continued fraction expansions of rational expressions with irreducible denominators in characteristic 2. **89a:11016**
Sweet, Melvin M. *see* **Mesirov, Jill P., 89a:11016**
Tichy, Robert F. Rekursive Folgen in Dedekind Ringen—einige Resultate und Probleme. [Recursive sequences in Dedekind rings—some results and problems] **89c:13024**

11Uxx Connections with logic

11U05 Decidability [see also 03B25]

Weispfenning, Volker The complexity of linear problems in fields. **89g:11123**

Items with secondary classifications in 11U05

Lazard, Daniel Quantifier elimination: optimal solution for two classical examples. **89k:12017**
Mangani, Piero Hilbert's tenth problem. (Italian) **89i:01047**
Okada, Mitsuhiro Note on a proof of the extended Kirby-Paris theorem on labeled finite trees. **89i:03108**
Repin, N. N. Some simply defined groups with no algorithm that recognizes decidability of equations. (Russian) **89i:20057**
Schmerl, Ulf R. Diophantine equations in fragments of arithmetic. **89e:03104**
Stern, Jacques Equivalence relations on lattices and the complexity of the theory of permutations which commute. **89c:03016**

11U09 Model theory

Items with secondary classifications in 11U09

Bélair, Luc Substructures and uniform elimination for p-adic fields. **89j:03026**

11U10 Nonstandard arithmetic [see also 03H15]

Items with secondary classifications in 11U10

Leth, Steven C. Applications of nonstandard models and Lebesgue measure to sequences of natural numbers. **89g:11012**

11Yxx Computational number theory [see also 11–04]

Churchhouse, R. F. Computers in number theory. **89f:11166**
Kranakis, Evangelos ★ Primality and cryptography. **89g:11124**

11Y05 Factorization

Bach, Eric (*with* Shallit, Jeffrey) Factoring with cyclotomic polynomials. **89k:11127**
Lenstra, H. W., Jr. Factoring integers with elliptic curves. **89g:11125**
Nicolas, J.-L. Utilisation des ordinateurs en theorie des nombres. [The use of computers in number theory] **89f:11167**
Pomerance, Carl (*with* Smith, Jeffrey W.; Tuler, Randy) A pipeline architecture for factoring large integers with the quadratic sieve algorithm. **89f:11168**
Schönhage, Arnold Probabilistic computation of integer polynomial GCDs. **89h:11084**
Shallit, Jeffrey *see* **Bach, Eric, 89k:11127**
Smith, Jeffrey W. *see* **Pomerance, Carl; et al., 89f:11168**
Tuler, Randy *see* **Pomerance, Carl; et al., 89f:11168**

Items with secondary classifications in 11Y05

Abbott, J. A. (*with* Bradford, R. J.; Davenport, James H.) Factorisation of polynomials: old ideas and recent results. **89f:12001**
Akritas, Alkiviadis G. A simple proof of the validity of the reduced prs algorithm. (German summary) **89e:12001**
Bradford, R. J. *see* **Abbott, J. A.; et al., 89f:12001**
Brent, Richard P. (*with* Cohen, Graeme L.) A new lower bound for odd perfect numbers. **89m:11008**
Buell, Duncan A. *see* **Young, Jeff, 89b:11012**
Cohen, Graeme L. *see* **Brent, Richard P., 89m:11008**
Davenport, James H. *see* **Abbott, J. A.; et al., 89f:12001**
Gennero, M. C. *see* **Poli, A., 89h:11082**
Goetgheluck, Pierre On prime divisors of binomial coefficients. **89f:11033**
Hsu, I.-S. *see* **Truong, T. K.; et al., 89c:94041**
Kaminski, Michael An algorithm for polynomial multiplication that does not depend on the ring constants. **89k:68066**
Lenstra, H. W., Jr. Elliptic curves and number-theoretic algorithms. **89d:11114**
Pohst, Michael A modification of the LLL reduction algorithm. **89c:11183**
Poli, A. (*with* Gennero, M. C.) FAST16: a software program for factorising polynomials over large GF(p). **89h:11082**
Reed, I. S. *see* **Truong, T. K.; et al., 89c:94041**
Shao, H. M. *see* **Truong, T. K.; et al., 89c:94041**
Shyu, Hsuen Chyun *see* **Truong, T. K.; et al., 89c:94041**
Stevenhagen, Peter On Aurifeuillian factorizations. **89a:11015**
Truong, T. K. (*with* Reed, I. S.; Hsu, I.-S.; Shyu, Hsuen Chyun; Shao, H. M.) A pipeline design of a fast prime factor DFT on a finite field. **89c:94041**
Young, Jeff (*with* Buell, Duncan A.) The twentieth Fermat number is composite. **89b:11012**

11Y11 Primality

Alexi, Werner (*with* Chor, Benny; Goldreich, Oded; Schnorr, C.-P.) RSA and Rabin functions: certain parts are as hard as the whole. **89j:11120**
Balasubramanian, Ramachandran Number theory and primality testing. **89i:11140**
Beauchemin, Pierre (*with* Brassard, Gilles; Crépeau, Claude; Goutier, Claude) Two observations on probabilistic primality testing. **89c:11180**
— (*with* Brassard, Gilles; Crépeau, Claude; Goutier, Claude; Pomerance, Carl) The generation of random numbers that are probably prime. **89g:11126**
Boyd, Colin Probabilistic prime tests. **89k:11128**
Brassard, Gilles *see* **Beauchemin, Pierre; et al., 89c:11180** *and* **89g:11126**
Chor, Benny *see* **Alexi, Werner; et al., 89j:11120**
Crépeau, Claude *see* **Beauchemin, Pierre; et al., 89c:11180** *and* **89g:11126**
Goldreich, Oded *see* **Alexi, Werner; et al., 89j:11120**
Gordon, Daniel M. On the number of elliptic pseudoprimes. **89f:11169**
Goutier, Claude *see* **Beauchemin, Pierre; et al., 89c:11180** *and* **89g:11126**
(Gritsenko, S. A.) *see* **Ribenboim, Paulo, 89c:11181**
Haghighi, M. Computation of prime numbers by using a probabilistic algorithm. **89d:11113**
(Karatsuba, A. A.) *see* **Ribenboim, Paulo, 89c:11181**
Lenstra, H. W., Jr. Elliptic curves and number-theoretic algorithms. **89d:11114**
Pomerance, Carl *see* **Beauchemin, Pierre; et al., 89g:11126**
Prasad, T. V. S. R. V. Primality testing and its implications. **89i:11141**
Ribenboim, Paulo Prime numbers records (a new chapter for the Guinness Book of Records). (Russian) **89c:11181**
Schnorr, C.-P. *see* **Alexi, Werner; et al., 89j:11120**

Items with secondary classifications in 11Y11

Bach, Eric How to generate factored random numbers. **89e:11082**
Buell, Duncan A. *see* **Young, Jeff, 89b:11012**
Dubner, H. A new method for producing large Carmichael numbers. **89m:11013**
Iséki, Kiyoshi Palindromic prime numbers. **89k:11005**
Kranakis, Evangelos ★ Primality and cryptography. **89g:11124**
Miyamoto, I. (*with* Murty, Maruti Ram) Elliptic pseudoprimes. **89j:11055**
Murty, Maruti Ram *see* **Miyamoto, I., 89j:11055**
Nicolas, J.-L. Utilisation des ordinateurs en theorie des nombres. [The use of computers in number theory] **89f:11167**
Potler, Aaron *see* **Young, Jeff, 89f:11019**
Ribenboim, Paulo ★ The book of prime number records. **89e:11052**
Rosen, Michael A proof of the Lucas-Lehmer test. **89i:11011**
Young, Jeff (*with* Buell, Duncan A.) The twentieth Fermat number is composite. **89b:11012**
— (*with* Potler, Aaron) First occurrence prime gaps. **89f:11019**

11Y16 Algorithms; complexity

Allouche, Jean-Paul Tours de Hanoi et automates finis. [Towers of Hanoi and finite automata] (*see* **89b:11004**)

Bach, Eric How to generate factored random numbers. **89e:11082**
Boyarinov, I. M. Systolic and semisystolic calculations in GF(2^m). (Russian) **89c:11182**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Computer assisted number theory with applications. **89a:11130**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89a:11130**
Frieze, A. M. (*with* Håstad, Johan; Kannan, Ravindran; Lagarias, J. C.; Shamir, Adi) Reconstructing truncated integer variables satisfying linear congruences. **89d:11115**
Gashkov, S. B. The complexity of monotone calculations of polynomials. (Russian) **89d:11116**
Håstad, Johan *see* **Frieze, A. M.; et al., 89d:11115**
Itoh, Toshiya (*with* Tsujii, Shigeo) A fast algorithm for computing multiplicative inverses in GF(2^m) using normal bases. **89j:11121**
Kannan, Ravindran Algorithmic geometry of numbers. **89a:11131**
— *see also* **Frieze, A. M.; et al., 89d:11115**
Kreher, Donald L. *see* **Radziszowski, Stanisław P., 89i:11142**
Lagarias, J. C. *see* **Frieze, A. M.; et al., 89d:11115**
Lenstra, H. W., Jr. Codes from algebraic number fields. **89a:11132**
Odlyzko, A. M. New analytic algorithms in number theory. **89d:11117**
Pohst, Michael A modification of the LLL reduction algorithm. **89c:11183**
Radziszowski, Stanisław P. (*with* Kreher, Donald L.) Solving subset sum problems with the L^3 algorithm. **89i:11142**
Schnorr, C.-P. A hierarchy of polynomial time lattice basis reduction algorithms. **89h:11085**
— A more efficient algorithm for lattice basis reduction. **89h:11086**
Shamir, Adi *see* **Frieze, A. M.; et al., 89d:11115**
Smeets, Bernard J. M. Some results on the Herlestam-Johannesson algorithm for computing logarithms over GF(2^p). **89h:11087**
Tsujii, Shigeo *see* **Itoh, Toshiya, 89j:11121**

Items with secondary classifications in 11Y16

Adjamagbo, Kossivi Sur l'effectivité du lemme du vecteur cyclique. (English summary) [Effectiveness of the cyclic vector lemma] **89i:12006**
Alexi, Werner (*with* Chor, Benny; Goldreich, Oded; Schnorr, C.-P.) RSA and Rabin functions: certain parts are as hard as the whole. **89j:11120**
Belaga, Edward G. Bilinear mincing rank. **89k:68058**
Borwein, J. M. (*with* Borwein, P. B.) On the complexity of familiar functions and numbers. **89k:68061**
Borwein, P. B. *see* **Borwein, J. M., 89k:68061**
Buchmann, Johannes (*with* Williams, Hugh Cowie) On the infrastructure of the principal ideal class of an algebraic number field of unit rank one. **89g:11098**
Cerlienco, L. (*with* Mignotte, Maurice; Piras, F.) Computing the measure of a polynomial. **89a:12001**
Chor, Benny *see* **Alexi, Werner; et al., 89j:11120**
Coppersmith, Don Methods and results in cryptography. **89k:94044**
Drauschke, Gabriele (*with* Tasche, Manfred) Exact deconvolution using number-theoretic transforms. **89i:65044**
Ferguson, Helaman Generalization of some algorithms of Euler. **89d:11057**
von zur Gathen, Joachim Irreducible polynomials over finite fields. **89c:11176**
— Feasible arithmetic computations: Valiant's hypothesis. **89f:68021**
— Factoring polynomials and primitive elements for special primes. **89a:11126**
Goldreich, Oded *see* **Alexi, Werner; et al., 89j:11120**
Haghighi, M. Computation of prime numbers by using a probabilistic algorithm. **89d:11113**
Håstad, Johan Solving simultaneous modular equations of low degree. **89e:68049**
Heideman, Michael T. ★ Multiplicative complexity, convolution, and the DFT. **89i:94006**
Hekrdla, Josef Index transforms for N-dimensional DFTs. **89h:65230**
Ito, Toshiya *see* **Kurosawa, Kaoru; et al., 89k:94049**
Kaliski, Burton S., Jr. A pseudorandom bit generator based on elliptic logarithms. **89c:94032**
Kaminski, Michael A linear time algorithm for residue computation and a fast algorithm for division with a sparse divisor. **89f:68033**
Kannan, Ravindran (*with* Lovász, L.) Covering minima and lattice point free convex bodies. **89b:11055**
— (*with* Lenstra, A. K.; Lovász, L.) Polynomial factorization and nonrandomness of bits of algebraic and some transcendental numbers. **89j:68061**
Kurosawa, Kaoru (*with* Ito, Toshiya; Takeuchi, Masashi) Public key cryptosystem using a reciprocal number with the same intractability as factoring a large number. **89k:94049**
Lagarias, J. C. (*with* Reeds, James A.) Unique extrapolation of polynomial recurrences. **89c:11025**
Latyshev, V. N. ★ Комбинаторная теория колец. (Russian) [Combinatorial ring theory] **89k:68068**
Lenstra, A. K. *see* **Kannan, Ravindran; et al., 89j:68061**
Lovász, L. *see* **Kannan, Ravindran, 89b:11055** *and* **89j:68061**
Mignotte, Maurice *see* **Cerlienco, L.; et al., 89a:12001**
Morrison, John F. Parallel p-adic computation. **89m:68105**
Paz, A. (*with* Schnorr, C.-P.) Approximating integer lattices by lattices with cyclic factor groups. **89e:06008**
Piras, F. *see* **Cerlienco, L.; et al., 89a:12001**
Pomerance, Carl (*with* Smith, Jeffrey W.; Tuler, Randy) A pipeline architecture for factoring large integers with the quadratic sieve algorithm. **89f:11168**
Prasad, T. V. S. R. V. Primality testing and its implications. **89i:11141**
Reeds, James A. *see* **Lagarias, J. C., 89c:11025**
Rónyai, Lajos A note on factoring polynomials modulo special primes. **89g:11119**
— Factoring polynomials over finite fields. **89k:11124**
Schnorr, C.-P. *see* **Paz, A., 89e:06008** *and* **Alexi, Werner; et al., 89j:11120**
Schönhage, Arnold Probabilistic computation of integer polynomial GCDs. **89h:11084**
Smale, Steve On the topology of algorithms. I. **89f:68020**
Smith, Jeffrey W. *see* **Pomerance, Carl; et al., 89f:11168**
Stephens, A. J. (*with* Williams, Hugh Cowie) Some computational results on a problem concerning powerful numbers. **89d:11091**
Strassen, V. The asymptotic spectrum of tensors. **89c:11056**
Takeuchi, Masashi *see* **Kurosawa, Kaoru; et al., 89k:94049**
Tasche, Manfred *see* **Drauschke, Gabriele, 89i:65044**
Tuler, Randy *see* **Pomerance, Carl; et al., 89f:11168**
Vrťo, I. Area complexity of VLSI computation over a ring of integers modulo m. (Russian summary) **89k:68080**
Wilber, Robert The concave least-weight subsequence problem revisited. **89k:90118**
Williams, Hugh Cowie *see* **Stephens, A. J., 89d:11091** *and* **Buchmann, Johannes, 89g:11098**

11Y35 Analytic computations

Items with secondary classifications in 11Y35

Bohman, Jan (*with* Fröberg, Carl-Erik) The Stieltjes function—definition and properties. **89i:11095**
Cohen, Alan Max Some computations relating to the Riemann zeta function. **89j:11086**
Cohen, Henri (*with* Dress, F.) Estimations numériques du reste de la fonction sommatoire relative aux entiers sans facteur carré. [Numerical estimates of the remainder of the sum function relative to squarefree numbers] **89i:11103**
Csordas, G. (*with* Norfolk, T. S.; Varga, Richard) A lower bound for the de Bruijn-Newman constant Λ. **89m:30054**
Dress, F. *see* **Cohen, Henri, 89i:11103**
Erëmin, A. Yu. (*with* Kaporin, I. E.; Kerimov, M. K.) Calculation of derivatives of the Riemann zeta function in a complex domain. (Russian) **89i:11096**
Fröberg, Carl-Erik *see* **Bohman, Jan, 89i:11095**
Kaporin, I. E. *see* **Erëmin, A. Yu.; et al., 89i:11096**
Kerimov, M. K. *see* **Erëmin, A. Yu.; et al., 89i:11096**
Moiseev, A. I. Calculation of some functions connected with the Hurwitz zeta-function. (Russian) **89j:11087**
Norfolk, T. S. *see* **Csordas, G.; et al., 89m:30054**
Odlyzko, A. M. New analytic algorithms in number theory. **89d:11117**
— (*with* Schönhage, Arnold) Fast algorithms for multiple evaluations of the Riemann zeta function. **89j:11083**
Robin, G. Irrégularités dans la distribution des nombres premiers dans les progressions arithmétiques. (English summary) [Irregularities in the distribution of primes in arithmetical progressions] **89c:11143**
Schönhage, Arnold *see* **Odlyzko, A. M., 89j:11083**
Varga, Richard *see* **Csordas, G.; et al., 89m:30054**

11Y40 Algebraic number theory computations

Böffgen, R. (*with* Reichert, M. A.) Computing the decomposition of primes p and p-adic absolute values in semisimple algebras over $\mathbf{Q}$. **89e:11083**
Buchmann, Johannes On the computation of units and class numbers by a generalization of Lagrange's algorithm. **89b:11104**
Reichert, M. A. *see* **Böffgen, R., 89e:11083**

Items with secondary classifications in 11Y40

Azuhata, Takashi On the calculation of a system of fundamental units of an algebraic number field. **89a:11111**
— On the calculation of a system of fundamental units of an algebraic number field. **89d:11095**
Buchmann, Johannes (*with* Williams, Hugh Cowie) On the infrastructure of the principal ideal class of an algebraic number field of unit rank one. **89g:11098**
— (*with* Ford, David) On the computation of totally real quartic fields of small discriminant. **89f:11147**
(Dueck, G. W.) *see* **Williams, Hugh Cowie, 89b:11085**
Eckhardt, Carsten Computation of class numbers by an analytic method. **89b:11089**
Ennola, Veikko On a conjecture of H. J. Godwin on cubic units. **89i:11114**
Ford, David *see* **Buchmann, Johannes, 89f:11147**
Ishikawa, Hirofumi A table of the dimensions of the Hilbert modular type cusp forms over real quadratic fields. **89g:11040**
Koblitz, Neal I. Primality of the number of points on an elliptic curve over a finite field. **89h:11023**
Llorente, Pascual (*with* Quer, Jordi) On totally real cubic fields with discriminant $D < 10^7$. **89g:11099**
Nakamula, Ken A table for pure cubic fields. **89i:11116**
Pinch, R. G. E. Galois module structure of elliptic functions. **89i:11122**
Quer, Jordi *see* **Llorente, Pascual, 89g:11099**
Rónyai, Lajos Zero divisors in quaternion algebras. (Russian summary) **89c:11168**
Silverman, Joseph H. Computing heights on elliptic curves. **89d:11049**
Stephens, A. J. (*with* Williams, Hugh Cowie) Some computational results on a problem concerning powerful numbers. **89d:11091**
Tropak, Bogdan Some explicit estimates in algebraic number field. I. **89c:11167**
Williams, Hugh Cowie Corrigenda: "Computation of the class number and class group of a complex cubic field" [Math. Comp. **45** (1985), no. 171, 223–231; MR 86m:11078] by G. W. Dueck and Williams. **89b:11085**
— *see also* **Stephens, A. J., 89d:11091** *and* **Buchmann, Johannes, 89g:11098**
Yui, Noriko Erratum: "The arithmetic of the product of two algebraic curves over a finite field" [J. Algebra **98** (1986), no. 1, 102–142; MR 87f:11042]. **89c:11102**
Zimmer, Horst Günter ★ Zur Arithmetik der elliptischen Kurven. (German) [On the arithmetic of elliptic curves] **89h:11024**

11Y50 Computer solution of Diophantine equations

Greenberg, Harold Solution to a linear Diophantine equation for nonnegative integers. **89j:11122**
(Krückeberg, F.) *see* **Pascoletti, Karl-Heinz, 89j:11123**
(Lautenbach, K.) *see* **Pascoletti, Karl-Heinz, 89j:11123**

Pascoletti, Karl-Heinz ★ Diophantische Systeme und Lösungsmethoden zur Bestimmung aller Invarianten in Petri-Netzen. (German) [Diophantine systems and methods of solution for determining all invariants in Petri nets] **89j:11123**

Items with secondary classifications in 11Y50

Mureddu, Marina A lower bound for $P(x^4+1)$. (French summary) **89e:11002**
Pethő, Attila On the resolution of Thue inequalities. **89b:11030**
— (*with* Schulenberg, R.) Effektives Lösen von Thue Gleichungen. [Effective solution of Thue equations] **89c:11044**
Pollard, John M. (*with* Schnorr, C.-P.) An efficient solution of the congruence $x^2+ky^2=m \pmod{n}$. **89e:11080**
Schnorr, C.-P. *see* **Pollard, John M., 89e:11080**
Schulenberg, R. *see* **Pethő, Attila, 89c:11044**
Vallée, Brigitte Un problème central en géometrie algorithmique des nombres: la réduction des réseaux. Autour de l'algorithme de Lenstra Lenstra Lovasz. [A central problem in the algorithmic geometry of numbers: the reduction of lattices. Concerning the Lenstra-Lenstra-Lovász algorithm] **89i:11071**
Zagier, Don Addendum to: "Large integral points on elliptic curves" [Math. Comp. **48** (1987), no. 177, 425–436; MR 87k:11062]. **89c:11092**

11Y55 Calculation of integer sequences

Er, M. C. An $O(k^2\log(n/k))$ algorithm for computing generalized order-k Fibonacci numbers with linear space. **89k:11129**
Kravchenko, I. V. Determination of the minimal base for Fibonacci p-sequences. (Russian) **89a:11133**
Sharir, M. *see* **Wiernik, Ady, 89h:11088**
Wiernik, Ady (*with* Sharir, M.) Planar realizations of nonlinear Davenport-Schinzel sequences by segments. **89h:11088**

Items with secondary classifications in 11Y55

Erdős, Paul (*with* Kiss, Péter; Sárközy, András) A lower bound for the counting function of Lucas pseudoprimes. **89e:11011**
von zur Gathen, Joachim Computing powers in parallel. **89j:68060**
Kiriyama, Hiroshi *see* **Origuchi, Tadashi; et al., 89e:11016**
Kiss, Péter *see* **Erdős, Paul; et al., 89e:11011**
Matsuoka, Yoshio *see* **Origuchi, Tadashi; et al., 89e:11016**
Origuchi, Tadashi (*with* Kiriyama, Hiroshi; Matsuoka, Yoshio) A table of the explicit formulas for the sums of powers $S_p(n)=\sum_{k=1}^{n}k^p$ for $p=1(1)61$. **89e:11016**
Sárközy, András *see* **Erdős, Paul; et al., 89e:11011**

11Y60 Evaluation of constants

Borwein, J. M. (*with* Borwein, P. B.) ★ Pi and the AGM. **89a:11134**
— (*with* Borwein, P. B.) More Ramanujan-type series for $1/\pi$. **89d:11118**
Borwein, P. B. *see* **Borwein, J. M., 89a:11134** *and* **89d:11118**
Castellanos, Dario The ubiquitous π. II. **89c:11184**
Edgar, G. A. Pi: difficult or easy? **89f:11170**
Jović, Dragoljub S. Calculation of Ludolf's number. (Serbo-Croatian) (Not in MR)

Items with secondary classifications in 11Y60

Nicolas, J.-L. Utilisation des ordinateurs en theorie des nombres. [The use of computers in number theory] **89f:11167**

11Y65 Continued fraction calculations

Lunnon, W. F. Multidimensional continued fractions and their applications. **89g:11127**

Items with secondary classifications in 11Y65

Buchmann, Johannes On the computation of units and class numbers by a generalization of Lagrange's algorithm. **89b:11104**
Bulota, K. Calculation of the nearest integer. **89i:11014**
van der Poorten, A. J. Remarks on the continued fractions of algebraic numbers. (*see* **89b:11004**)

11Y70 Values of arithmetic functions; tables

Items with secondary classifications in 11Y70

Borza, László ★ Periodic length of fractions with their gamma values: $\alpha^\lambda \equiv 1 \pmod{p}$, $p-1=\lambda\cdot\gamma$. Vol. 1. (German) **89g:11001a**
— ★ Periodic length of fractions with their gamma values: $\alpha^\lambda \equiv 1 \pmod{p}$, $p-1=\lambda\cdot\gamma$. Vol. 2. (German) **89g:11001b**
— ★ Periodic length of fractions with their gamma values: $\alpha^\lambda \equiv 1 \pmod{p}$, $p-1=\lambda\cdot\gamma$. Vol. 3. (German) **89g:11001c**
Brent, Richard P. (*with* Cohen, Graeme L.) A new lower bound for odd perfect numbers. **89m:11008**
Cohen, Graeme L. *see* **Brent, Richard P., 89m:11008**
Landau, Susan Some remarks on computing the square parts of integers. **89k:11003**

Items listed otherwise than by author

Tables:
Periodic length of fractions with their gamma values *see* **Borza, László, 89g:11001a; 89g:11001b** *and* **89g:11001c**

11Y99 None of the above, but in this section

Hejhal, Dennis A. Zeros of Epstein zeta functions and supercomputers. **89g:11128**
Saito, Sadao On a problem of D. H. Lehmer in number theory. (Japanese. English summary) **89f:11171**
Senchukov, V. F. Logical operations over sequences and the law of prime numbers. (Russian. English summary) **89k:11130**

Items with secondary classifications in 11Y99

Barlotti, Marco A divisibility criterion. (Italian) **89b:11005**
Golovanov, P. N. (*with* Solodovnikov, V. I.) Rapid parallel calculation of degrees in a quotient ring of polynomials over a finite field. (Russian) **89h:11080**
McDaniel, Wayne L. Some pseudoprimes and related numbers having special forms. **89m:11006**
Solodovnikov, V. I. *see* **Golovanov, P. N., 89h:11080**

12–XX Field theory and polynomials

Zeng, Guang Xing An extension of Lang's homomorphism theorem. (Chinese) (Not in MR)
Zheng, Qiu Cheng A generalization of Eisenstein's criterion. (Chinese) (Not in MR)

12–01 Elementary exposition; textbooks

Lorenz, Falko ★ Einführung in die Algebra. Teil I. (German) [Introduction to algebra. Part I] **89j:12001**
Scimemi, Benedetto A graphical method for studying the real zeros of polynomials. A geometric interpretation of the Ruffini rule. (Italian) **89h:12001**
Tignol, Jean-Pierre ★ Galois' theory of algebraic equations. **89j:12002**

Items with secondary classifications in 12–01

Blyth, T. S. (*with* Robertson, Edmund F.) ★ Abstract algebra. **89b:00001c**
Deschamps, Cl. *see* **Ramis, E.; et al., 89f:00003**
Gersten, S. M. (*with* Stallings, John R.) On Gauss's first proof of the fundamental theorem of algebra. **89e:20051**
Odoux, J. *see* **Ramis, E.; et al., 89f:00003**
Ramis, E. (*with* Deschamps, Cl.; Odoux, J.) ★ Algèbre. (French) [Algebra] **89f:00003**
Robertson, Edmund F. *see* **Blyth, T. S., 89b:00001c**
Stallings, John R. *see* **Gersten, S. M., 89e:20051**

12–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 12–02

Mikhalëv, A. V. (*with* Pankrat'ev, E. V.) Differential and difference algebra. (Russian) **89a:12011**
Pankrat'ev, E. V. *see* **Mikhalëv, A. V., 89a:12011**
Więsław, Witold ★ Topological fields. **89i:12007**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89a:01044**
Hacque, Michel Réhabilitation des degrés en théorie de Galois. [Rehabilitation of degrees in Galois theory] **89m:12003**
Rasputin, G. G. *see* **Renschuch, Bodo; et al., 89a:01044**
Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) On forgotten papers of N. M. Günter on the theory of polynomial ideals. (Russian. English summary) **89a:01044**
Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89a:01044**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Abbott, J. A. (*with* Bradford, R. J.; Davenport, James H.) Factorisation of polynomials: old ideas and recent results. **89f:12001**
Akritas, Alkiviadis G. A simple proof of the validity of the reduced prs algorithm. (German summary) **89e:12001**
Bradford, R. J. *see* **Abbott, J. A.; et al., 89f:12001**
Cerlienco, L. (*with* Mignotte, Maurice; Piras, F.) Computing the measure of a polynomial. **89a:12001**
Davenport, James H. *see* **Abbott, J. A.; et al., 89f:12001**
Demazure, M. Le théorème de complexité de Mayr et Meyer. [The Mayr-Meyer complexity theorem] **89f:12002**
Kaltofen, Erich Greatest common divisors of polynomials given by straight-line programs. **89e:12002**
McCallum, Scott An improved projection operation for cylindrical algebraic decomposition of three-dimensional space. **89m:12001**
Mignotte, Maurice *see* **Cerlienco, L.; et al., 89a:12001**
Piras, F. *see* **Cerlienco, L.; et al., 89a:12001**

Items with secondary classifications in 12–04

Abbott, J. A. (*with* Davenport, James H.) Another surprising property of 42. A remark on a paper by P. S. Wang: "Factoring multivariate polynomials over algebraic number fields" [Math. Comp. **30** (1976), no. 134, 324–336; MR **58** #27887a]. **89d:11089**
Akritas, Alkiviadis G. A new method for computing polynomial greatest common divisors and polynomial remainder sequences. **89e:68062**
Arnon, Dennis S. (*with* McCallum, Scott) A polynomial-time algorithm for the topological type of a real algebraic curve. **89k:12005**
Bach, Eric (*with* Shallit, Jeffrey) Factoring with cyclotomic polynomials. **89k:11127**

Bini, D. (*with* Pan, V.) Polynomial division and its computational complexity. **89k:68060**
Boyd, David W. Reciprocal polynomials having small measure. II. **89m:30013**
Davenport, James H. Computer algebra applied to itself. **89m:68072**
— *see also* **Abbott, J. A., 89d:11089**
Gashkov, S. B. The complexity of monotone calculations of polynomials. (Russian) **89d:11116**
von zur Gathen, Joachim Feasible arithmetic computations: Valiant's hypothesis. **89f:68021**
Grigor′ev, D. Yu. Computational complexity in polynomial algebra. **89e:68063**
Grossman, Robert (*with* Larson, Richard G.) The symbolic computation of higher-order derivations: symmetries of expressions and actions of group algebras. **89e:13031**
(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89a:01044**
Heideman, Michael T. ★ Multiplicative complexity, convolution, and the DFT. **89i:94006**
Hoffmann, Christoph Algebraic curves. **89b:65040**
Kaminski, Michael An algorithm for polynomial multiplication that does not depend on the ring constants. **89k:68066**
Larson, Richard G. *see* **Grossman, Robert, 89e:13031**
Martin, Clyde Franklin *see* **Weinberg, David A., 89j:12003**
McCallum, Scott *see* **Arnon, Dennis S., 89k:12005**
Pan, V. *see* **Bini, D., 89k:68060**
Patterson, Richard R. Parametric cubics as algebraic curves. **89k:14043**
Rasputin, G. G. *see* **Renschuch, Bodo; et al., 89a:01044**
Renegar, James On the worst-case arithmetic complexity of approximating zeros of polynomials. **89a:68107**
Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) On forgotten papers of N. M. Günter on the theory of polynomial ideals. (Russian. English summary) **89a:01044**
Risler, Jean-Jacques Some aspects of complexity in real algebraic geometry. **89k:12002**
Robbiano, Lorenzo Algebra and computers. (Italian. English summary) **89i:00010**
Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89a:01044**
Schönhage, Arnold Equation solving in terms of computational complexity. **89h:68071**
— Probabilistic computation of integer polynomial GCDs. **89h:11084**
Shallit, Jeffrey *see* **Bach, Eric, 89k:11127**
Theodorou, N. *see* **Tzafestas, Spyros G., 89c:68002**
Traverso, Carlo Constructive methods and automatic computation in commutative algebra. (Italian) **89k:13001**
Tzafestas, Spyros G. (*with* Theodorou, N.) Computational algorithms for algebraic operations on multidimensional polynomials. **89c:68002**
(Wang, Paul S.) *see* **Abbott, J. A., 89d:11089**
Weinberg, David A. (*with* Martin, Clyde Franklin) A note on resultants. **89j:12003**
Weispfenning, Volker Some bounds for the construction of Gröbner bases. **89i:12009**
— The complexity of linear problems in fields. **89g:11123**

12Dxx Real and complex fields

12D05 Polynomials: factorization

Filaseta, Michael Irreducibility criteria for polynomials with nonnegative coefficients. **89h:12002**
Martin, Clyde Franklin *see* **Weinberg, David A., 89j:12003**
Reich, L. (*with* Schwaiger, J.) On polynomials in additive and multiplicative functions. **89g:12001**
Schwaiger, J. *see* **Reich, L., 89g:12001**
Unbehauen, R. *see* **Zou, Mou Yan, 89e:12003**
Weinberg, David A. (*with* Martin, Clyde Franklin) A note on resultants. **89j:12003**
Zou, Mou Yan (*with* Unbehauen, R.) Approximate factorization of multivariable polynomials. (French and German summaries) **89e:12003**

Items with secondary classifications in 12D05

Akritas, Alkiviadis G. A new method for computing polynomial greatest common divisors and polynomial remainder sequences. **89e:68062**
Kai, Ping An (*with* Xu, Hui) Calculating the greatest common divisor of n polynomials and deciding the stability of linear systems with constant complex coefficients by using matrix transformations. (Chinese. English summary) **89j:93084**
Kurdyka, Krzysztof (*with* Rusek, Kamil) Polynomial-rational bijections of $\mathbf{R}^n$. **89d:14016**
Marin, Alexis Géométrie des polynômes: Côut global moyen de la méthode de Newton (d'après M. Shub et S. Smale). [Geometry of polynomials: average global cost of Newton's method (following M. Shub and S. Smale)] **89g:58030**
Rusek, Kamil *see* **Kurdyka, Krzysztof, 89d:14016**
(Shub, Michael) *see* **Marin, Alexis, 89g:58030**
(Smale, Steve) *see* **Marin, Alexis, 89g:58030**
Xu, Hui *see* **Kai, Ping An, 89j:93084**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Coste, M. (*with* Roy, Marie-Françoise) Thom's lemma, the coding of real algebraic numbers and the computation of the topology of semi-algebraic sets. **89g:12002**
Fujiyoshi, Seiji *see* **Matsuda, Takashi; et al., 89i:12001**
Goodman, A. W. (*with* Schoenberg, I. J.) A proof of Grace's theorem by induction. **89a:12002**
Li, Tien-Yien Solving polynomial systems. **89d:12001**
Liu, Zhuo Jun A method of isolating complex roots of a polynomial—an application of the Wu-Ritt principle. (Chinese. English summary) **89k:12001**
Matsuda, Takashi (*with* Fujiyoshi, Seiji; Yanagiwara, Hiroki) On the transformation to get only simple real zeros for an algebraic equation with complex zeros or multiple real zeros. **89i:12001**
Risler, Jean-Jacques Some aspects of complexity in real algebraic geometry. **89k:12002**
Roy, Marie-Françoise *see* **Coste, M., 89g:12002**
Schoenberg, I. J. *see* **Goodman, A. W., 89a:12002**
Yagzhev, A. V. Letter to the editors: "Finiteness of the set of conservative polynomials of a given degree" [Mat. Zametki **41** (1987), no. 2, 148–151; MR 88g:12001]. **89k:12003**
Yanagiwara, Hiroki *see* **Matsuda, Takashi; et al., 89i:12001**

Items with secondary classifications in 12D10

Barmish, B. Ross (*with* Fu, Minyue; Saleh, S.) Stability of a polytope of matrices: counterexamples. **89g:93084**
Davenport, James H. Computer algebra applied to itself. **89m:68072**
Fu, Minyue *see* **Barmish, B. Ross; et al., 89g:93084**
Jamjoom, Fatma B. (*with* Zaheer, N.) On Hörmander's ratio theorems. **89b:30005**
Kai, Ping An (*with* Xu, Hui) Calculating the greatest common divisor of n polynomials and deciding the stability of linear systems with constant complex coefficients by using matrix transformations. (Chinese. English summary) **89j:93084**
Lascoux, Alain La résultante de deux polynômes. [The resultant of two polynomials] **89b:13012**
Młynarski, Max The location of zeros of polyomials. **89h:30007**
Renegar, James On the worst-case arithmetic complexity of approximating zeros of polynomials. **89a:68107**
Saleh, S. *see* **Barmish, B. Ross; et al., 89g:93084**
Xie, Lang (*with* Xie, Lin) On the optimum criterion of polynomial stability. **89h:26018**
Xie, Lin *see* **Xie, Lang, 89h:26018**
Xu, Hui *see* **Kai, Ping An, 89j:93084**
Zaheer, N. *see* **Jamjoom, Fatma B., 89b:30005**

12D15 Formally real fields [see also 12J10, 12J15]

Arnon, Dennis S. A bibliography of quantifier elimination for real closed fields. **89g:12003**
Craven, Thomas C. Fields maximal with respect to a set of orderings. **89e:12004**
Elman, Richard (*with* Wadsworth, Adrian R.) Hereditarily quadratically closed fields. **89g:12004**
Mináč, Ján Stability indices and Poincaré polynomials. **89a:12003**
Pasini, Leonardo Hardy fields in several variables. (Italian summary) **89g:12005**
— Generalized Hardy fields in several variables. **89k:12004**
Popescu, Angel Galois correspondences for algebraic extensions of fields. (Romanian. English summary) **89a:12004**
Schmid, Joachim Eine Bemerkung zu den höheren Pythagoraszahlen reeller Körper. (English summary) [A comment on the higher Pythagoras numbers of real fields] **89e:12005**
Wadsworth, Adrian R. *see* **Elman, Richard, 89g:12004**
Zeng, Guang Xing Positive definite functions over formally real fields with core. (Chinese. English summary) **89i:12002**
— A new proof of McKenna's theorem. **89d:12002**
— A characterization of preordered fields with the weak Hilbert property. **89i:12003**

Items with secondary classifications in 12D15

Bröcker, L. On the separation of basic semialgebraic sets by polynomials. **89d:14034**
Brown, Ron Real closures of fields at orderings of higher level. **89c:12005**
— The behavior of chains of orderings under field extensions and places. **89c:12006**
Bujalance, E. (*with* Etayo Miqueo, José Javier; Gamboa, J. M.) Algebraic function fields in one variable over real-closed ground fields. **89a:12009**
Delon, Françoise Rolle fields and rings. **89b:12011**
Etayo Miqueo, José Javier *see* **Bujalance, E.; et al., 89a:12009**
Gamboa, J. M. *see* **Bujalance, E.; et al., 89a:12009**
Iwakami, Tatsuo The graded Witt ring of a quasi-Pythagorean field. **89a:11042**
Joyal, André (*with* Reyes, Gonzalo E.) Separably real closed local rings. **89e:03054**
Mulcahy, Colm An abstract approach to higher level forms and rigidity. **89d:11030**
Pambuccian, Victor An axiom system for plane Euclidean geometry. (Russian summary) **89h:51024**
Prestel, Alexander Model theory applied to some questions about polynomials. **89e:03057**
Reyes, Gonzalo E. *see* **Joyal, André, 89e:03054**
Schwartz, Niels Real closed rings. **89b:14035**
— ★ The basic theory of real closed spaces. **89c:14037**
Tignol, Jean-Pierre (*with* Vast, Nicole) Représentation de -1 comme somme de carrés dans certaines algèbres de quaternions. (English summary) [Representation of -1 as a sum of squares in certain quaternion algebras] **89f:11058**
Toffalori, Carlo Pairs of *o*-minimal structures. **89h:03063**
Vast, Nicole *see* **Tignol, Jean-Pierre, 89f:11058**

12D99 None of the above, but in this section

Arnon, Dennis S. (*with* McCallum, Scott) A polynomial-time algorithm for the topological type of a real algebraic curve. **89k:12005**
Brownawell, W. Dale Bounds for the degrees in the Nullstellensatz. **89b:12001**
— Borne effective pour l'exposant dans le théorème des zéros. (English summary) [An effective bound for the exponent in the Nullstellensatz] **89b:12002**
— *see also* **Philippon, Patrice, 89h:12003**
Fesenko, V. I. Calculation of a resultant. (Russian) (*see* **89f:00011**)
Fujiyoshi, Seiji *see* **Matsuda, Takashi; et al., 89g:12006**
Matsuda, Takashi (*with* Fujiyoshi, Seiji; Yanagiwara, Hiroki) On the transformation of the algebraic equations to those with only simple real roots. **89g:12006**
McCallum, Scott *see* **Arnon, Dennis S., 89k:12005**
Philippon, Patrice On the article "Bounds for the degrees in the Nullstellensatz" [Ann. of Math. (2) **126** (1987), no. 3, 557–591; MR 89b:12001] by W. D. Brownawell. (French) **89h:12003**
Yanagiwara, Hiroki *see* **Matsuda, Takashi; et al., 89g:12006**
Young, Robert M. When is $\mathbf{R}^n$ a field? **89h:12004**

Items with secondary classifications in 12D99

Balinskiĭ, A. I. The Bezout mapping and the connection between the methods of Hermite and Schur in the theory of stability of polynomials. (Russian) **89b:93093**

Berenstein, Carlos A. (*with* Struppa, Daniele) Small degree solutions for the polynomial Bezout equation. **89g:32005**
Grigor′ev, D. Yu. *see* **Vorob′ev, N. N., Jr., 89m:68073**
Kalhoff, Franz Eine Kennzeichnung anordnungsfähiger Ternärkörper. (English summary) [A characterization of orderable ternary fields] **89j:51013**
Smale, Steve On the topology of algorithms. I. **89f:68020**
Struppa, Daniele *see* **Berenstein, Carlos A., 89g:32005**
Vorob′ev, N. N., Jr. (*with* Grigor′ev, D. Yu.) Solution of systems of polynomial inequalities over real-closed fields in subexponential time. (Russian. English summary) **89m:68073**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Barnett, Stephen Euclidean remainders for generalized polynomials. **89e:12006**
Charzyński, Zygmunt (*with* Skibiński, Przemysław) A criterion for explicit dependence of polynomials. (Polish summary) **89g:12007**
Evertse, J.-H. (*with* Győry, K.) On the number of polynomials and integral elements of given discriminant. **89k:12006**
Foster, Lorraine L. (*with* Soule, Malcolm S.) On minimum multinomial degrees of algebraic extension fields. **89b:12003**
Győry, K. *see* **Evertse, J.-H., 89k:12006**
Lascoux, Alain Forme canonique d'une forme binaire. (English summary) [The canonical form of a binary form] **89a:12005**
Loper, Alan On rings without a certain divisibility property. **89a:12006**
Matzat, B. Heinrich (*with* Zeh-Marschke, Andreas) Polynome mit der Galoisgruppe M_{11} über **Q**. (English summary) [Polynomials with the Galois group M_{11} over **Q**] **89b:12004**
McKay, John On computing discriminants. **89h:12005**
Panaitopol, L. (*with* Ştefănescu, D.) On the Eisenstein's criterion. **89g:12008**
— (*with* Ştefănescu, D.) Factorization of the Schönemann polynomials. **89k:12007**
Schinzel, A. On the number of terms of a power of a polynomial. **89a:12007**
Skibiński, Przemysław On a necessary and sufficient condition for the integral algebraic dependence of polynomials. (Russian summary) **89m:12002**
— *see also* **Charzyński, Zygmunt, 89g:12007**
Soule, Malcolm S. *see* **Foster, Lorraine L., 89b:12003**
Ştefănescu, D. *see* **Panaitopol, L., 89g:12008** *and* **89k:12007**
Trotter, Hale F. An overlooked example of nonunique factorization. **89h:12006**
Zeh-Marschke, Andreas *see* **Matzat, B. Heinrich, 89b:12004**

Items with secondary classifications in 12E05

Akritas, Alkiviadis G. A simple proof of the validity of the reduced prs algorithm. (German summary) **89e:12001**
Amano, Kazuo (*with* Iwata, Keiji) A Euclidean algorithm on $M_n(\Delta)$. **89e:16031**
Filaseta, Michael The irreducibility of almost all Bessel polynomials. **89a:11105**
Iwata, Keiji *see* **Amano, Kazuo, 89e:16031**
Malle, Gunter Polynomials for primitive nonsolvable permutation groups of degree $d \leq 15$. **89b:12007**
McKay, James H. (*with* Wang, Stuart Sui Sheng) An elementary proof of the automorphism theorem for the polynomial ring in two variables. **89k:14017**
— *see also* **Moh, T. T.; et al., 89m:14009**
Moh, T. T. (*with* McKay, James H.; Wang, Stuart Sui Sheng) On face polynomials. **89m:14009**
Wang, Stuart Sui Sheng *see* **McKay, James H., 89k:14017** *and* **Moh, T. T.; et al., 89m:14009**

12E10 Special polynomials

Nowicki, Andrzej Władysław On the Jacobian equation $J(f, g) = 0$ for polynomials in $k[x, y]$. **89d:12003**

Items with secondary classifications in 12E10

Babenko, A. G. An extremal problem for nonnegative trigonometric polynomials. (Russian) (*see* **89j:00036**)
Foster, Lorraine L. (*with* Soule, Malcolm S.) On minimum multinomial degrees of algebraic extension fields. **89b:12003**
Matzat, B. Heinrich Computational methods in constructive Galois theory. **89f:12007**
Soule, Malcolm S. *see* **Foster, Lorraine L., 89b:12003**
Spackman, Kenneth W. When is the Galois group of $X^n - a$ dihedral? **89g:12010**
Vila, Núria On stem extensions of S_n as Galois group over number fields. **89g:11107**

12E12 Equations

Coleman, Robert F. On the Galois groups of the exponential Taylor polynomials. **89e:12007**
Kowalski, Eugeniusz On some application of the matrices to the solving of the equations. **89e:12008**
Ughi, Emanuela (*with* Vipera, Maria Cristina) On the minimum number of "free" roots of a simple polynomial. (Italian. English summary) **89k:12008**
Vipera, Maria Cristina *see* **Ughi, Emanuela, 89k:12008**

Items with secondary classifications in 12E12

Ballico, Edoardo (*with* Struppa, Daniele) Minimal degree solutions for the Bezout equation. **89b:93039**
Struppa, Daniele *see* **Ballico, Edoardo, 89b:93039**
Tignol, Jean-Pierre ★ Galois' theory of algebraic equations. **89j:12002**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45 16A39]

Gräter, J. Valuations on finite-dimensional division algebras and their value groups. **89h:12007**
Lewis, D. W. Levels and sublevels of division algebras. **89f:12003**
Mammone, Pasquale (*with* Tignol, Jean-Pierre) Dihedral algebras are cyclic. **89b:12005**
Merkur′ev, A. S. The group SK_2 for quaternion algebras. **89c:12001**
— The group SK_2 for quaternion algebras. **89e:12009**
Piziak, Robert A note on definite quadratic spaces and Baer orderings. **89a:12008**
Platonov, V. P. (*with* Yanchevskiĭ, V. I.) On the theory of Henselian division algebras. **89c:12002**
— (*with* Yanchevskiĭ, V. I.) Finite-dimensional Henselian division algebras. **89j:12004**
Rapinchuk, A. S. Finite presentability of reduced norms in simple algebras. (English summary) **89f:12004**
Tignol, Jean-Pierre *see* **Mammone, Pasquale, 89b:12005**
Yanchevskiĭ, V. I. *see* **Platonov, V. P., 89c:12002** *and* **89j:12004**

Items with secondary classifications in 12E15

Abboud, Elias Q-admissibility of certain nonsolvable groups. **89f:11154**
Balachandran, V. K. (*with* Rema, P. S.; Satyanarayana Murthy, P. V.) Non-Archimedean valuation on rational composition algebras. **89d:17029**
Bergmann, Artur Reduzierte Normen und Theorie von Algebren. [Reduced norms and the theory of algebras] **89a:16029**
Chipchakov, I. D. Normality of locally finite associative division algebras over classical fields. **89e:16030**
Cohn, P. M. On coproducts of ordered systems. **89d:06030**
Haile, Darrell A useful proposition for division algebras of small degree. **89k:16037**
Hartmann, P. Stellen und Topologien von Schiefkörpern und Alternativkörpern. [Places and topologies of skew fields and alternative fields] **89k:12013**
Kang, Ming Chang Metacyclic p-algebras. **89c:16023**
Kaskevich, V. I. The structure of unitary and orthogonal groups over Henselian discretely valued Azumaya algebras. (Russian. English summary) **89g:16009**
Kupferoth, Achim Valuated division algebras and crossed products. **89b:16015**
Kursov, V. V. (*with* Yanchevskiĭ, V. I.) Crossed products of simple algebras and their groups of automorphisms. (Russian. English summary) **89m:16017**
Lewis, D. W. On the level. **89f:11063**
Mammone, Pasquale On the tensor product of quaternion algebras of characteristic two. **89b:16016**
— (*with* Shapiro, Daniel B.) The Albert quadratic form for an algebra of degree four. **89g:16029**
Merkur′ev, A. S. Milnor K-theory and Galois cohomology. **89k:12009**
Opolka, H. The Schur group and central extensions. **89d:11102**
Powers, Victoria Higher level reduced Witt rings of skew fields. **89g:11036**
Raghunathan, M. S. On the group of norm 1 elements in a division algebra. **89g:11111**
Rapinchuk, A. S. The congruence subgroup problem for algebraic groups and strong approximation in affine varieties. (Russian. English summary) **89i:11053**
Rema, P. S. *see* **Balachandran, V. K.; et al., 89d:17029**
Riehm, C. The Schur subgroup of the Brauer group of cyclotomic rings of integers. **89c:13005**
Rónyai, Lajos Zero divisors in quaternion algebras. (Russian summary) **89c:11168**
Satyanarayana Murthy, P. V. *see* **Balachandran, V. K.; et al., 89d:17029**
Schröder, Martin Bewertungsringe von Schiefkörpern, Resultate und offene Probleme. [Valuation rings of skew fields, results and open problems] **89g:16006**
Schue, John The Wedderburn theorem of finite division rings. **89f:16021**
Shapiro, Daniel B. *see* **Mammone, Pasquale, 89g:16029**
Sładek, Andrzej Witt rings of complete skew fields. **89d:11031**
Van Geel, Jan Maximal orders over curves. **89e:16012**
Voronovich, I. I. A local-global principle for algebras over fields of rational functions. (Russian. English summary) **89a:11122**
Wang, Xue Kuan On pseudoideals in division rings. (Chinese. English summary) **89k:16039a**
— Erratum: "On pseudoideals in division rings" [J. Math. Res. Exposition **8** (1988), no. 2, 184–186]. (Chinese) **89k:16039b**
Yanchevskiĭ, V. I. *see* **Kursov, V. V., 89m:16017**
Young, Robert M. When is $\mathbf{R}^n$ a field? **89h:12004**
Yucas, Joseph Generalized Hilbert fields, quaternion algebra structure and block design counting. **89e:11020**

12E20 Finite fields {For number-theoretic questions, see 11Txx.}

Items with secondary classifications in 12E20

Bessarabenko, K. V. *see* **Gorbenko, I. D.; et al.,** (Not in MR)
Gorbenko, I. D. (*with* Zamula, A. A.; Bessarabenko, K. V.) Accelerated algorithms for forming systems of characteristic discrete signals. (Russian) (Not in MR)
Richman, David A result about block Vandermonde matrices. **89d:15003**
Zamula, A. A. *see* **Gorbenko, I. D.; et al.,** (Not in MR)

12E99 None of the above, but in this section

Kollár, János Sharp effective Nullstellensatz. **89h:12008**
Sharif, Habib (*with* Woodcock, Christopher F.) Algebraic functions over a field of positive characteristic and Hadamard products. **89f:12005**
Thompson, Robert C. Resultants, bigradients, and integral polynomials. **89b:12006**
Woodcock, Christopher F. *see* **Sharif, Habib, 89f:12005**

Items with secondary classifications in 12E99

Freund, Peter G. O. (*with* Olson, Mark) p-adic dynamical systems. **89g:81026**
Fried, M. Irreducibility results for separated variables equations. **89a:14004**
Martin, Gary A. Definability in reducts of algebraically closed fields. **89f:03022**
Olson, Mark *see* **Freund, Peter G. O., 89g:81026**

12Fxx Field extensions

2F05 Algebraic extensions

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oster, Lorraine L. (*with* Soule, Malcolm S.) On minimum multinomial degrees of algebraic extension fields. **89b:12003**
opescu, Angel Galois correspondences for algebraic extensions of fields. (Romanian. English summary) **89a:12004**
oule, Malcolm S. *see* **Foster, Lorraine L., 89b:12003**

2F10 Separable extensions, Galois theory

rason, Jón Kr. (*with* Fein, B.; Schacher, M.; Sonn, J.) Cyclic extensions of $K(\sqrt{-1})/K$. **89j:12005**
Belyĭ, G. V. The commutant of the absolute Galois group. (Russian) **89f:12006**
Dugas, Manfred (*with* Göbel, Rüdiger) All infinite groups are Galois groups over any field. **89e:12010**
Fein, B. *see* **Arason, Jón Kr.; et al., 89j:12005**
Göbel, Rüdiger *see* **Dugas, Manfred, 89e:12010**
Hacque, Michel Réhabilitation des degrés en théorie de Galois. [Rehabilitation of degrees in Galois theory] **89m:12003**
Kersten, I. (*with* Michaliček, Johannes) Kummer theory without roots of unity. **89h:12009**
Malle, Gunter Polynomials for primitive nonsolvable permutation groups of degree $d \leq 15$. **89b:12007**
— Exceptional groups of Lie type as Galois groups. **89m:12004**
Matzat, B. Heinrich Computational methods in constructive Galois theory. **89f:12007**
Michaliček, Johannes *see* **Kersten, I., 89h:12009**
Neumann, Olaf On the imbedding of quadratic extensions into Galois extensions with symmetric group. **89g:12009**
Pahlings, H. Some sporadic groups as Galois groups. **89i:12004**
Schacher, M. *see* **Arason, Jón Kr.; et al., 89j:12005**
Schwarz, Štefan Construction of normal bases in cyclic extensions of a field. **89h:12010**
Shparlinskiĭ, I. E. *see* **Stepanov, S. A., 89b:12008**
Sonn, J. *see* **Arason, Jón Kr.; et al., 89j:12005**
Spackman, Kenneth W. When is the Galois group of $X^n - a$ dihedral? **89g:12010**
Stepanov, S. A. (*with* Shparlinskiĭ, I. E.) Construction of a normal basis of a finite field. (Russian) **89b:12008**

Items with secondary classifications in 12F10

(Barbilian, Dan) *see* **Radu, Nicolae, 89m:01064**
Haran, Dan Quantifier elimination in separably closed fields of finite imperfectness degree. **89i:03057**
Matzat, B. Heinrich (*with* Zeh-Marschke, Andreas) Polynome mit der Galoisgruppe M_{11} über Q. (English summary) [Polynomials with the Galois group M_{11} over Q] **89b:12004**
Popescu, Angel Galois correspondences for algebraic extensions of fields. (Romanian. English summary) **89a:12004**
Praeger, Cheryl E. Covering subgroups of groups and Kronecker classes of fields. **89i:20040**
— On octic field extensions and a problem in group theory. **89k:20006**
Radu, Nicolae A contribution of Dan Barbilian to Galois theory. (Romanian) **89m:01064**
Vila, Núria On stem extensions of S_n as Galois group over number fields. **89g:11107**
Zeh-Marschke, Andreas *see* **Matzat, B. Heinrich, 89b:12004**

12F15 Inseparable extensions, derivations

Deveney, James K. (*with* Heerema, Nickolas) Higher derivations and distinguished subfields. **89b:12009**
Diarra, Bertin Extensions radicielles des corps de valuation discrète complets. [Radicial extensions of complete discrete valuation fields] **89e:12011**
Heerema, Nickolas *see* **Deveney, James K., 89b:12009**

Items with secondary classifications in 12F15

Niţă, Ana The field extensions and ultraproducts. (Romanian summary) **89c:12008**

12F20 Transcendental extensions

Bujalance, E. (*with* Etayo Miqueo, José Javier; Gamboa, J. M.) Algebraic function fields in one variable over real-closed ground fields. **89a:12009**
Deveney, James K. The cancellation problem for function fields. **89g:12011**
Etayo Miqueo, José Javier *see* **Bujalance, E.; et al., 89a:12009**
Fein, B. (*with* Schacher, M.; Sonn, J.) Brauer groups of fields of genus zero. **89f:12008**
Gamboa, J. M. *see* **Bujalance, E.; et al., 89a:12009**
Schacher, M. *see* **Fein, B.; et al., 89f:12008**
Sonn, J. *see* **Fein, B.; et al., 89f:12008**

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Alexandru, Victor (*with* Popescu, Nicolae) Sur une classe de prolongements à $K(X)$ d'une valuation sur un corps K. [On a class of extensions to $K(X)$ of a valuation over a field K] **89h:12015**
Dèbes, Pierre G-fonctions et théorème d'irreductibilité de Hilbert. [G-functions and Hilbert's irreducibility theorem] **89c:11112**
Dugas, Manfred (*with* Göbel, Rüdiger) All infinite groups are Galois groups over any field. **89e:12010**
Gamboa, J. M. Some new results on ordered fields. **89a:12017**
Göbel, Rüdiger *see* **Dugas, Manfred, 89e:12010**
Popescu, Nicolae *see* **Alexandru, Victor, 89h:12015**

12F99 None of the above, but in this section

Krasner, Marc Local differents of algebraic and finite extensions of valued fields. **89d:12004**

Items with secondary classifications in 12F99

Qureshi, M. Asif Localized normalization theorems. **89f:13031**

12Gxx Homological methods

12G05 Galois cohomology [see also 11R34, 11S25, 13A20, 16A16]

Merkur′ev, A. S. Milnor K-theory and Galois cohomology. **89k:12009**
Shirayanagi, Kiyoshi Algebras associated with LSGOP. **89f:12009**
Suslin, A. A. Algebraic K-theory of fields. **89k:12010**
Tsvetkov, V. M. Examples of two-dimensional pro-p-groups and Lie algebras. (Russian) **89a:12010**

Items with secondary classifications in 12G05

Bruhat, F. (*with* Tits, J.) Groupes algébriques sur un corps local. Chapitre III. Compléments et applications à la cohomologie galoisienne. [Algebraic groups over local fields. III. Further remarks and applications to Galois cohomology] **89b:20099**
Ch'ên, Yung Ch'iu *see* **Chu, Hua; et al., 89d:11101**
Chu, Hua (*with* Kang, Ming Chang; Ch'ên, Yung Ch'iu) The corestriction of p-symbols. **89d:11101**
Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps de séries formelles en une variable sur un corps algébriquement clos. [The Tate-Poitou theorem for the function fields of curves defined over fields of formal power series in one variable over an algebraically closed field] **89c:11100**
Iwakami, Tatsuo The graded Witt ring of a quasi-Pythagorean field. **89a:11042**
Kang, Ming Chang *see* **Chu, Hua; et al., 89d:11101**
Kanzaki, Teruo (*with* Watanabe, Yutaka) Azumaya algebras split by real closure. **89j:13003**
Kersten, I. (*with* Michaliček, Johannes) Kummer theory without roots of unity. **89h:12009**
Michaliček, Johannes *see* **Kersten, I., 89h:12009**
Opolka, H. The Schur group and central extensions. **89d:11102**
Suslin, A. A. Torsion in K_2 of fields. **89a:11123**
Tits, J. *see* **Bruhat, F., 89b:20099**
Watanabe, Yutaka *see* **Kanzaki, Teruo, 89j:13003**

12G10 Cohomological dimension

Sivitskiĭ, I. Ya. Milnor K-theory of two-dimensional fields. (Russian) **89m:12005**

Items with secondary classifications in 12G10

Pop, Florian Galoissche Kennzeichnung p-adisch abgeschlossener Körper. [Galois characterization of p-adically closed fields] **89k:12014**

12G99 None of the above, but in this section

Rosset, Shmuel An invariant of free central extensions. **89d:12005**
Suslin, A. A. The Beĭlinson spectral sequence for the K-theory of the field of real numbers. (Russian) **89i:12005**

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Dress, Andreas (*with* Siebeneicher, Christian) The Burnside ring of profinite groups and the Witt vector construction. **89m:20025**
Siebeneicher, Christian *see* **Dress, Andreas, 89m:20025**
Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**

12Hxx Differential and difference algebra

Mikhalëv, A. V. (*with* Pankrat′ev, E. V.) Differential and difference algebra. (Russian) **89a:12011**
Pankrat′ev, E. V. *see* **Mikhalëv, A. V., 89a:12011**

12H05 Differential algebra [see also 13N05]

Adjamagbo, Kossivi Sur l'effectivité du lemme du vecteur cyclique. (English summary) [Effectiveness of the cyclic vector lemma] **89i:12006**
André, Yves Quatre descriptions des groupes de Galois différentiels. [Four descriptions of differential Galois groups] **89e:12012**
Bézivin, Jean-Paul (*with* Robba, P.) Rational solutions of linear differential equations. **89a:12012**
Buium, A. Movable singularities and differential Galois theory. **89a:12013**
Carrà Ferro, Giuseppa Some properties of the lattice points and their application to differential algebra. **89a:12014**
Davenport, James H. Integration in closed form. **89k:12011**
Kim, So In On the commutative structure of S-fields of differential operators. (Korean. English summary) (Not in MR)
Kondrat′eva, M. V. Description of a set of minimal differential-dimensional polynomials. **89d:12006**
Krob, D. Centralisateurs d'opérateurs pseudodifferentiels formels a coefficients constants. [Centralizers of formal pseudodifferential operators with constant coefficients] **89a:12015**
Lipshitz, L. (*with* Rubel, Lee A.) Corrigendum to: "A differentially algebraic replacement theorem, and analog computability" [Proc. Amer. Math. Soc. **99** (1987), no. 2, 367–372; MR 88e:12006]. **89h:12011**
Morrison, Sally D. Continuous derivations. **89h:12012**
Nishioka, Keiji A note on the transcendency of Painlevé's first transcendent. **89c:12003**
Robba, P. *see* **Bézivin, Jean-Paul, 89a:12012**
Rubel, Lee A. Some mathematical limitations of the general-purpose analog computer. **89h:12013**

— *see also* **Lipshitz, L., 89h:12011**
Singer, Michael F. Algebraic relations among solutions of linear differential equations: Fano's theorem. **89d:12007**
Tsirulik, V. G. Application of the Ore-Novikov equation to the determination of a differential Galois group. (Russian) **89f:12010**
Umemura, Hiroshi On the irreducibility of Painlevé differential equations. (Japanese) **89m:12006**

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Abu-Saymeh, Sadi (*with* Ikeda, Masatoshi) On the higher derivations of communitive [commutative] rings. **89d:13019**
Awami, Mohamed A. (*with* Van den Bergh, Michel; Van Oystaeyen, F.) Note on derivations of graded rings and classification of differential polynomial rings. **89m:16002**
Carrà Ferro, Giuseppa On the tangent space to an affine differential variety at a given point. **89a:14003**
Cauchon, Gérard Centraliseurs dans les anneaux de polynômes différentiels formels et leurs corps de fractions. [Centralizers in formal differential polynomial rings and their fraction fields] **89m:16005**
Chou, Shang-Ching A method for the mechanical derivation of formulas in elementary geometry. **89b:03021**
Ikeda, Masatoshi *see* **Abu-Saymeh, Sadi, 89d:13019**
Jaulent, M. (*with* Manna, M.; Martínez Alonso, L.) Scalar-bipolar asymptotic modules for solving $(2+1)$-dimensional nonlinear evolution equations with constraints. **89h:35296**
Kupershmidt, B. A. Undressing of odd pseudodifferential operators. **89h:58078**
Liu, Zhuo Jun A method of isolating complex roots of a polynomial—an application of the Wu-Ritt principle. (Chinese. English summary) **89k:12001**
Manna, M. *see* **Jaulent, M.; et al., 89h:35296**
Martínez Alonso, L. *see* **Jaulent, M.; et al., 89h:35296**
Pommaret, J.-F. Differential sequences and higher order variational calculus. **89g:58227**
— Thermodynamique et théorie des groupes. (English summary) [Thermodynamics and group theory] **89m:35015**
Post, G. Note on "N-pseudoreductions" of the KP hierarchy. **89c:58055**
Rubel, Lee A. (*with* Singer, Michael F.) Autonomous functions. **89j:34013**
Singer, Michael F. *see* **Rubel, Lee A., 89j:34013**
Ştefanovici, Mircea A ternary algebra associated with the Rayleigh equation. (Russian. Romanian summary) **89b:34087**
Tsujishita, Toru KdV-invariant polynomial functionals. **89h:58083**
Van den Bergh, Michel *see* **Awami, Mohamed A.; et al., 89m:16002**
Van Oystaeyen, F. *see* **Awami, Mohamed A.; et al., 89m:16002**
Yebbou, J. Calcul de facteurs déterminants. [Calculation of determining factors] **89a:34011**

12H10 Difference algebra [see also 39Axx]

Karr, Michael Theory of summation in finite terms. **89a:12016**

Items with secondary classifications in 12H10

Castoral, Ralf (*with* Länger, Helmut) A formula for the solution of a system of difference equations over a commutative ring. II. **89d:39001**
Länger, Helmut *see* **Castoral, Ralf, 89d:39001**

12H20 Abstract differential equations [see also 34Gxx]

Cauchon, Gérard Centralisateurs des opérateurs pseudo-différentiels formels en une indéterminée. [Centralizers of formal pseudodifferential operators in one indeterminate] **89m:12007**

Items with secondary classifications in 12H20

Cheng, Yi^1 *see* **Li, Yi Shen, 89h:35305**
Gölzer, B. A novel 15-vertex solution of the Sutherland equation. **89j:82071**
Jaulent, M. (*with* Manna, M.; Martínez Alonso, L.) A solvable hierarchy of $(N+1)$-dimensional nonlinear evolution equations with constraints. **89k:58121**
Li, Yi Shen (*with* Cheng, Yi^1) Symmetries and constants of motion for the new KdV hierarchies. **89h:35305**
Manna, M. *see* **Jaulent, M.; et al., 89k:58121**
Martínez Alonso, L. *see* **Jaulent, M.; et al., 89k:58121**
Olver, Peter J. Darboux's theorem for Hamiltonian differential operators. **89j:58033**
Tsujishita, Toru KdV-invariant polynomial functionals. **89h:58083**
Ueno, Kazuo Multiplicative Jordan decomposition in $\mathrm{Aut}_{\mathbf{C}}\,\mathbf{C}[[x_1,\cdots,x_n]]$ and the exponential map. **89i:13007**
Wilson, George On the quasi-Hamiltonian formalism of the KdV equation. **89k:58136**

12H25 *p*-adic differential equations [see also 11S80, 14G20, 34Gxx]

Salinier, Alain Structure de Frobenius forte de l'équation différentielle hypergéométrique. (English summary) [Strong Frobenius structure of the hypergeometric differential equation] **89c:12004**

Items with secondary classifications in 12H25

Adolphson, Alan (*with* Sperber, Steven) Twisted Kloosterman sums and p-adic Bessel functions. II. Newton polygons and analytic continuation. **89b:11101**
Baldassarri, F. Comparaison entre la cohomologie algébrique et la cohomologie p-adique rigide à coefficients dans un module différentiel. II. Cas des singularités régulières à plusieurs variables. [Comparison between algebraic cohomology and rigid p-adic cohomology with coefficients in a differential module. II. The case of regular multivariate singularities] **89h:14018**
Bézivin, Jean-Paul (*with* Robba, P.) Rational solutions of linear differential equations. **89a:12012**
Robba, P. *see* **Bézivin, Jean-Paul, 89a:12012**
Sperber, Steven *see* **Adolphson, Alan, 89b:11101**

12Jxx Topological fields

Więsław, Witold ★ Topological fields. **89i:12007**

12J10 Valued fields

Brown, Ron Automorphisms and isomorphisms of real Henselian fields. **89k:12012**
Delon, Françoise Extensions séparées et immédiates de corps valués. (English summary) [Separated and immediate extensions of valued fields] **89f:12011**
Hartmann, P. Stellen und Topologien von Schiefkörpern und Alternativkörpern. [Places and topologies of skew fields and alternative fields] **89k:12013**
Pop, Florian Galoissche Kennzeichnung p-adisch abgeschlossener Körper. [Galois characterization of p-adically closed fields] **89k:12014**

Items with secondary classifications in 12J10

Brown, Ron Real closures of fields at orderings of higher level. **89c:12005**
— The behavior of chains of orderings under field extensions and places. **89c:12006**
Delon, Françoise Corps portant un nombre fini de valuations. (English summary) [Fields with a finite number of valuations] **89g:03052**
Keller, Hans A. Measures on orthomodular vector space lattices. **89m:28024**
Kupferoth, Achim Valuated division algebras and crossed products. **89b:16015**

12J15 Ordered fields

Brown, Ron Real closures of fields at orderings of higher level. **89c:12005**
— The behavior of chains of orderings under field extensions and places. **89c:12006**
Gamboa, J. M. Some new results on ordered fields. **89a:12017**
Kijima, Daiji Cuts of ordered fields. **89k:12015**
— (*with* Nishi, Mieo; Sakaibara, Miyoko) Maximal ordered fields of rank n. II. **89f:12012**
Nishi, Mieo *see* **Kijima, Daiji; et al., 89f:12012**
Sakaibara, Miyoko *see* **Kijima, Daiji; et al., 89f:12012**
Shell, Niel Bounded and relatively bounded sets. **89h:12014**

Items with secondary classifications in 12J15

Bröcker, L. On the separation of basic semialgebraic sets by polynomials. **89d:14034**
Brown, Ron Automorphisms and isomorphisms of real Henselian fields. **89k:12012**
Cohn, P. M. On coproducts of ordered systems. **89d:06030**
Dahn, Bernd I. (*with* Göring, Peter) Notes on exponential-logarithmic terms. **89c:03062**
Dreševič, Milan Equivalent formulations of the axiom of completeness. (Serbo-Croatian) **89h:26001**
Ehrlich, Philip An alternative construction of Conway's ordered field No. **89d:04004a**
— Errata to: "An alternative construction of Conway's ordered field No". **89d:04004b**
Göring, Peter *see* **Dahn, Bernd I., 89c:03062**
Hellegouarch, Yves Propriétés géométrico-arithmétiques des algèbres à involution. [Geometric and arithmetical properties of algebras with involution] **89k:16020**
Mináč, Ján Stability indices and Poincaré polynomials. **89a:12003**
Zeng, Guang Xing A characterization of preordered fields with the weak Hilbert property. **89i:12003**

12J20 General valuation theory

Alexandru, Victor (*with* Popescu, Nicolae) Sur une classe de prolongements à $K(X)$ d'une valuation sur un corps K. [On a class of extensions to $K(X)$ of a valuation over a field K] **89h:12015**
Popescu, Nicolae *see* **Alexandru, Victor, 89h:12015**

Items with secondary classifications in 12J20

Brown, Ron Automorphisms and isomorphisms of real Henselian fields. **89k:12012**
Matignon, Michel Genre et genre résiduel des corps de fonctions valués. (English summary) [Genus and residue genus of function fields with valuation] **89a:11063**
Schröder, Martin Bewertungsringe von Schiefkörpern, Resultate und offene Probleme. [Valuation rings of skew fields, results and open problems] **89g:16006**

12J25 Non-Archimedean valued fields [see also 26E30, 30G05, 32D25, 46P05]

Items with secondary classifications in 12J25

Bayod, J. M. (*with* Martínez-Maurica, J.) Ultrametrically tight extensions. **89d:54007**
Escassut, Alain Fonctions analytiques et produits croulants. [Analytic functions and collapsing products] **89d:32038**
Krasner, Marc Local differents of algebraic and finite extensions of valued fields. **89d:12004**
Martínez-Maurica, J. *see* **Bayod, J. M., 89d:54007**
Stratigopoulos, Demetrios A property of ramification groups and numbers of algebraic finite extensions of valued fields. **89g:11113**

12J99 None of the above, but in this section

Alling, Norman L. Neumann-complete formal power series fields. **89a:12018**
Arnautov, V. I. Extension of the ring topology of a σ-bounded field to a simple transcendental extension of it. **89a:12019**
Shell, Niel Connected and disconnected fields. **89a:12020**
Ursul, M. I. On the dimension theory of topological fields. (Russian) **89k:12016**

Items with secondary classifications in 12J99

Chow, Yun Shyong Estimating trajectories. **89a:62093**
Shakhmatov, D. B. The structure of topological fields, and cardinal invariants. **89c:54076**
Van Maldeghem, H. Valuations on PTRs induced by triangle buildings. **89h:51011**

12Kxx Generalizations

12K05 Near-fields [see also 16A76]

Items with secondary classifications in 12K05
Fuchs, Peter Rudolf (*with* Maxson, C. J.) Near-fields associated with invariant linear κ-relations. **89f:16053**
Maxson, C. J. *see* **Fuchs, Peter Rudolf, 89f:16053**
Pilz, Günter F. Near-rings—5 lectures. **89m:16079**
Schulz, Klaus Ulrich Undecidability of the theory of finite nearfields. **89m:03034**
— Universalität bei unendlichen Fastkörpern. [Universality in infinite near-fields] **89m:16026**
Yakabe, Iwao Near-rings with laminated generalized near-fields. **89m:16081**

12K10 Semifields [see also 16A78]

Items with secondary classifications in 12K10
Fenoglio, Paul B. *see* **Mitchell, Sidney S., 89a:16056**
Mitchell, Sidney S. (*with* Fenoglio, Paul B.) Congruence-free commutative semirings. **89a:16056**

12K99 None of the above, but in this section

Kallaher, Michael J. The multiplicative groups of quasifields. **89c:12007**

Items with secondary classifications in 12K99
Grundhöfer, Theo Ternary fields of compact projective planes. **89d:51021**

12Lxx Connections with logic

Fried, M. (*with* Jarden, Moshe) ★ Field arithmetic. **89b:12010**
Jarden, Moshe *see* **Fried, M., 89b:12010**

12L05 Decidability

Delon, Françoise Rolle fields and rings. **89b:12011**
Lazard, Daniel Quantifier elimination: optimal solution for two classical examples. **89k:12017**

Items with secondary classifications in 12L05
van den Dries, Lou Elimination theory for the ring of algebraic integers. **89k:03038**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Recursive p-adic numbers and elementary theories of finitely generated pro-p-groups. **89c:20044**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 89c:20044**
Schulz, Klaus Ulrich Undecidability of the theory of finite nearfields. **89m:03034**
Tung, Shih Ping Decidable sentences over polynomial rings. **89e:03018**

12L10 Ultraproducts

Niţă, Ana The field extensions and ultraproducts. (Romanian summary) **89c:12008**

Items with secondary classifications in 12L10
Delon, Françoise Corps portant un nombre fini de valuations. (English summary) [Fields with a finite number of valuations] **89g:03052**

12L12 Model theory

Bélair, Luc Le théorème de Macintyre sur les ensembles définissables dans les corps p-adiques. [Macintyre's theorem on definable sets in p-adic fields] **89k:12018**
— Modèles premiers et corps régulièrement clos. [Prime models and regularly closed fields] **89i:12008**
Schmidt-Göttsch, Karsten Bounds and definability over fields. **89b:12012**
Van Praag, P. L'élimination linéaire dans les corps gauches. [Linear elimination in division algebras] **89e:12013**
Weispfenning, Volker Some bounds for the construction of Gröbner bases. **89i:12009**

Items with secondary classifications in 12L12
Arnon, Dennis S. A bibliography of quantifier elimination for real closed fields. **89g:12003**
Bélair, Luc Substructures and uniform elimination for p-adic fields. **89j:03026**
Dahn, Bernd I. (*with* Göring, Peter) Notes on exponential-logarithmic terms. **89c:03062**
Davenport, James H. (*with* Heintz, Joos) Real quantifier elimination is doubly exponential. **89g:03009**
Delon, Françoise Le principe d'Ax-Kochen-Eršov et quelques conséquences. [The Ax-Kochen-Ershov principle and some consequences] **89d:03032a**
— Paires de corps réels clos. [Pairs of real closed fields] **89d:03032b**
van den Dries, Lou Alfred Tarski's elimination theory for real closed fields. **89h:01040**
— On the elementary theory of restricted elementary functions. **89i:03074**
Göring, Peter *see* **Dahn, Bernd I., 89c:03062**
Haran, Dan Quantifier elimination in separably closed fields of finite imperfectness degree. **89i:03057**
Heintz, Joos *see* **Davenport, James H., 89g:03009**
Pillay, Anand On groups and fields definable in o-minimal structures. **89i:03069**
Poizat, Bruno ★ Groupes stables. (French) [Stable groups] **89b:03056**
— Missionary mathematics. (French) **89b:03058**
— MM. Borel, Tits, Zil′ber et le Général Nonsense. [Messrs. Borel, Tits, Zil′ber and General Nonsense] **89c:03060**
Simpson, Stephen G. Ordinal numbers and the Hilbert basis theorem. **89j:03052**
(Tarski, Alfred) *see* **van den Dries, Lou, 89h:01040**

Tian, Wei Dong Logical reductions of the Jacobian conjecture. (Chinese. English summary) **89k:03039**
Wang, Shi Qiang Inductive rings and inductive fields. (Chinese. English summary) **89k:03040**

12L99 None of the above, but in this section

Items with secondary classifications in 12L99
Khisamiev, N. G. Nonconstructivizibility of some ordered fields of real numbers. (Russian) **89h:03059**
Martin, Gary A. Definability in reducts of algebraically closed fields. **89f:03022**
Prestel, Alexander Model theory applied to some questions about polynomials. **89e:03057**
Scowcroft, Philip More on definable sets of p-adic numbers. **89k:03037**

13–XX Commutative rings and algebras {For the noncommutative case, see 16–XX.}

13–01 Elementary exposition; textbooks

Items with secondary classifications in 13–01
Deschamps, Cl. *see* **Ramis, E.; et al., 89f:00003**
Godement, Roger ★ Cours d'algèbre. (French) [Course in algebra] **89b:00002**
Lorenz, Falko ★ Einführung in die Algebra. Teil I. (German) [Introduction to algebra. Part I] **89j:12001**
Odoux, J. *see* **Ramis, E.; et al., 89f:00003**
Onishchik, A. L. (*with* Sulanke, Rolf) ★ Algebra und Geometrie. 2. (German) [Algebra and geometry. 2] **89c:00001**
Ramis, E. (*with* Deschamps, Cl.; Odoux, J.) ★ Algèbre. (French) [Algebra] **89f:00003**
Rodosskiĭ, K. A. ★ Алгоритм Евклида. (Russian) [The Euclidean algorithm] **89i:13022**
Sulanke, Rolf *see* **Onishchik, A. L., 89c:00001**

13–02 Advanced exposition (research surveys, monographs, etc.)

Bruns, Winfried (*with* Vetter, Udo) ★ Determinantal rings. **89i:13001**
Huckaba, James A. ★ Commutative rings with zero divisors. **89e:13001**
Huneke, Craig An algebraist commuting in Berkeley. **89m:13001**
Krasner, Marc (*with* Vuković, Mirjana) ★ Structures paragraduées (groupes, anneaux, modules). (French) [Paragraded structures (groups, rings, modules)] **89c:13001**
Vetter, Udo *see* **Bruns, Winfried, 89i:13001**
Vuković, Mirjana *see* **Krasner, Marc, 89c:13001**

Items with secondary classifications in 13–02
Brezuleanu, Alexandru (*with* Ionescu, Cristodor) "Good" Noetherian rings. **89i:13020**
Ionescu, Cristodor *see* **Brezuleanu, Alexandru, 89i:13020**
Sancho de Salas, Ma. Teresa ★ Methods of commutative algebra for topology. **89f:54003**

Items listed otherwise than by author
Outline of D-modules ★ D-kagun gaisetsu. I. (Japanese) [An outline of D-modules. I] **89k:32020**
Symposium:
Outline of D-Modules ★ D-kagun gaisetsu. I. (Japanese) [An outline of D-modules. I] **89k:32020**

13–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 13–03
(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89c:13003**
Rasputin, G. G. *see* **Renschuch, Bodo; et al., 89c:13003**
Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) Beiträge zur konstruktiven Theorie der Polynomideale. XXIII. Vergessene Arbeiten des Leningrader Mathematikers N. M. Gjunter zur Theorie der Polynomideale. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XXIII. Forgotten works of the Leningrad mathematician N. M. Günter on the theory of polynomial ideals] **89c:13003**
Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89c:13003**

13–04 Explicit machine computation and programs (not the theory of computation or programming)

Buchberger, Bruno Applications of Gröbner bases in nonlinear computational geometry. **89g:13001**
Grigor′ev, D. Yu. (*with* Vorob′ev, N. N., Jr.) Solving systems of polynomial inequalities in subexponential time. **89h:13001**
Kandri-Rody, Abdelilah (*with* Kapur, Deepak) Computing a Gröbner basis of a polynomial ideal over a Euclidean domain. **89h:13002**
Kapur, Deepak *see* **Kandri-Rody, Abdelilah, 89h:13002**
Latishev, V. M. (*with* Mīkhal′ov, O. V.; Pankrat′ev, E. V.) Construction of canonical simplifiers in modules over rings of polynomials. (Ukrainian. Russian summary) **89c:13002**
Mīkhal′ov, O. V. *see* **Latishev, V. M.; et al., 89c:13002**

Pankrat′ev, E. V. *see* **Latishev, V. M.; et al., 89c:13002**
Traverso, Carlo Constructive methods and automatic computation in commutative algebra. (Italian) **89k:13001**
Vorob′ev, N. N., Jr. *see* **Grigor′ev, D. Yu., 89h:13001**

Items with secondary classifications in 13–04

Barry, Michele (*with* Cyrluk, David; Kapur, Deepak; Mundy, J. L.; Nguyen, Van-Duc) A multi-level geometric reasoning system for vision. (*see* **89j:68007**)
Brumatti, P. (*with* Simis, A.; Vasconcelos, W. V.) Normal Rees algebras. **89b:13011**
Buchberger, Bruno Applications of Gröbner bases in nonlinear computational geometry. **89a:68112**
Cyrluk, David *see* **Barry, Michele; et al.,** (**89j:68007**)
Czapor, S. R. Solving algebraic equations: combining Buchberger's algorithm with multivariate factorization. **89k:68081**
Demazure, M. Le théorème de complexité de Mayr et Meyer. [The Mayr-Meyer complexity theorem] **89f:12002**
Kaminski, Michael An algorithm for polynomial multiplication that does not depend on the ring constants. **89k:68066**
Kapur, Deepak *see* **Barry, Michele; et al.,** (**89j:68007**)
Kutzler, Bernhard Introduction to Buchberger's Gröbner bases method. **89c:68055**
Möller, H. Michael (*with* Mora, Ferdinando) Computational aspects of reduction strategies to construct resolutions of monomial ideals. **89a:13022**
Mora, Ferdinando *see* **Möller, H. Michael, 89a:13022**
Mundy, J. L. *see* **Barry, Michele; et al.,** (**89j:68007**)
Nguyen, Van-Duc *see* **Barry, Michele; et al.,** (**89j:68007**)
Sakata, Shojiro Finding a minimal set of linear recurring relations capable of generating a given finite two-dimensional array. **89d:94045**
Simis, A. *see* **Brumatti, P.; et al., 89b:13011**
Stifter, Sabine A generalization of reduction rings. **89h:68077**
Vasconcelos, W. V. The structure of certain ideal transforms. **89e:13027**
— *see also* **Brumatti, P.; et al., 89b:13011**
Weispfenning, Volker Some bounds for the construction of Gröbner bases. **89i:12009**

13–06 Proceedings, conferences, etc.

(Matsumura, Hideyuki) *see* **Commutative algebra and combinatorics, 89b:13001**
(Nagata, Masayoshi) *see* **Commutative algebra and combinatorics, 89b:13001**

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Commutative algebra and combinatorics ★ Commutative algebra and combinatorics. **89b:13001**
Kyoto ★ Commutative algebra and combinatorics. **89b:13001**
Seminar:
  Commutative Algebra and Combinatorics ★ Commutative algebra and combinatorics. **89b:13001**

Items with secondary classifications in 13–06

(Geramita, Anthony V.) *see* **Seminar: Curves, 89f:14001**
(Hijikata, Hiroaki) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Hironaka, Heisuke) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Maruyama, Masaki) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Matsumura, Hideyuki) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Miyanishi, Masayoshi) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Nagata, Masayoshi) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Oda, Tadao) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**
(Robbiano, Lorenzo) *see* **Computational aspects of commutative algebra, 89j:68004**
(Ueno, Kenji) *see* **Algebraic geometry and commutative algebra, 89g:14001** *and* **89g:14002**

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Algebraic geometry and commutative algebra ★ Algebraic geometry and commutative algebra. Vol. I. **89g:14001**
— ★ Algebraic geometry and commutative algebra. Vol. II. **89g:14002**
Computational aspects of commutative algebra ★ Computational aspects of commutative algebra. **89j:68004**
Kingston, ON ★ The Curves Seminar at Queen's. Vol. V. **89f:14001**
Seminar:
  Curves ★ The Curves Seminar at Queen's. Vol. V. **89f:14001**

13Axx General commutative ring theory

13A10 Radical theory

Laksov, Dan Generalized radicals of ideals in algebras. **89b:13002**

13A15 Ideals

Anderson, D. D. (*with* Pascual, Joaquin) Regular ideals in commutative rings, sublattices of regular ideals, and Prüfer rings. **89a:13001**
— Nonfinitely generated ideals in valuation domains. **89a:13002**
Arapović, Miroslav Some results on reduced rings. (Serbo-Croatian summary) **89f:13001**
Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren) Generators of ideals containing monics. **89d:13001**
(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89c:13003**
Hochster, Melvin (*with* Huneke, Craig) Tightly closed ideals. **89b:13003**
Huneke, Craig *see* **Hochster, Melvin, 89b:13003**
Jayaram, C. Regular rings. **89f:13002**
Katz, Daniel (*with* Ratliff, L. J., Jr.) Two notes on ideal-transforms. **89a:13003**
Lantz, David (*with* Martin, Mary B.) Strongly two-generated ideals. **89i:13002**
Martin, Mary B. *see* **Lantz, David, 89i:13002**
Nashier, Budh *see* **Gilmer, Robert; et al., 89d:13001**
Nichols, Warren *see* **Gilmer, Robert; et al., 89d:13001**
Pascual, Joaquin *see* **Anderson, D. D., 89a:13001**
Rasputin, G. G. H-bases of polynomial ideals. (Russian. English and German summaries) **89h:13003**
— *see also* **Renschuch, Bodo; et al., 89c:13003**
Ratliff, L. J., Jr. Δ-closures of ideals and rings. **89j:13001**
— *see also* **Katz, Daniel, 89a:13003**
Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) Beiträge zur konstruktiven Theorie der Polynomideale. XXIII. Vergessene Arbeiten des Leningrader Mathematikers N. M. Gjunter zur Theorie der Polynomideale. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XXIII. Forgotten works of the Leningrad mathematician N. M. Günter on the theory of polynomial ideals] **89c:13003**
Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89c:13003**

Items with secondary classifications in 13A15

Anderson, D. D. (*with* Anderson, David F.) Some remarks on star operations and the class group. **89f:13024**
— (*with* Mahaney, L. A.) On primary factorizations. **89h:13004**
Anderson, David F. A general theory of class groups. **89f:13023**
— (*with* Ryckaert, Alain) The class group of $D + M$. **89h:13008**
— *see also* **Anderson, D. D., 89f:13024**
Buchberger, Bruno Applications of Gröbner bases in nonlinear computational geometry. **89g:13001**
(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89a:01044**
Hamann, Eloise (*with* Houston, Evan; Johnson, Jon L.) Properties of uppers to zero in $R[x]$. **89j:13019**
Houston, Evan (*with* Lucas, Thomas G.; Viswanathan, T. M.) Primary decomposition of divisorial ideals in Mori domains. **89i:13028**
— (*with* Zafrullah, Muhammad) Integral domains in which each t-ideal is divisorial. **89i:13027**
— *see also* **Hamann, Eloise; et al., 89j:13019**
Huckaba, James A. ★ Commutative rings with zero divisors. **89e:13001**
Huckaba, Sam Reduction numbers for ideals of higher analytic spread. **89b:13023**
Jaballah, Ali Monomiale Ideale und mengentheoretische vollständige Durchschnitte. [Monomial ideals and set-theoretic complete intersections] **89h:13012**
Johnson, Jon L. *see* **Hamann, Eloise; et al., 89j:13019**
Kondrat′eva, M. V. Description of a set of minimal differential-dimensional polynomials. **89d:12006**
Laksov, Dan Generalized radicals of ideals in algebras. **89b:13002**
Loper, Alan On rings without a certain divisibility property. **89a:12006**
Lucas, Thomas G. *see* **Houston, Evan; et al., 89i:13028**
Mahaney, L. A. *see* **Anderson, D. D., 89h:13004**
McAdam, S. Quintasymptotic primes and four results of Schenzel. **89h:13021**
Rasputin, G. G. Polynomial ideals and some problems of computational methods. (Russian) **89j:65044**
— *see also* **Renschuch, Bodo; et al., 89a:01044**
Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) On forgotten papers of N. M. Günter on the theory of polynomial ideals. (Russian. English summary) **89a:01044**
Roitman, Moshe On the lifting problem for homogeneous ideals in polynomial rings. **89i:13023**
Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89a:01044**
Ryckaert, Alain *see* **Anderson, David F., 89h:13008**
Solian, Alexandru (*with* Viswanathan, T. M.) Hochster's theorem, coherent locales, and lattices of radical ideals. **89g:06028**
Viswanathan, T. M. *see* **Solian, Alexandru, 89g:06028** *and* **Houston, Evan; et al., 89i:13028**
Zafrullah, Muhammad *see* **Houston, Evan, 89i:13027**

13A17 Prime and primary ideals and their generalizations

Al-Ezeh, H. The pure spectrum of a PF-ring. **89k:13002**
Anderson, D. D. (*with* Mahaney, L. A.) On primary factorizations. **89h:13004**
Haouat, Youssef Spectre d'anneaux de polynômes sur une suite de modules. [The spectrum of polynomial rings over a sequence of modules] **89j:13002**
Katz, Daniel (*with* Ratliff, L. J., Jr.) On the prime divisors of IJ when I is integrally closed. **89k:13003**
Mahaney, L. A. *see* **Anderson, D. D., 89h:13004**
McAdam, S. (*with* Ratliff, L. J., Jr.) Persistent primes and projective extensions of ideals. **89i:13003**
Ratliff, L. J., Jr. On the kernel of a monadic transformation. **89g:13002**
— *see also* **McAdam, S., 89i:13003** *and* **Katz, Daniel, 89k:13003**
Taherizadeh, A.-J. On asymptotic values of certain sets of attached prime ideals. **89i:13004**
Verma, J. K. On the symbolic topology of an ideal. **89c:13004**

Items with secondary classifications in 13A17

Abu-Saymeh, Sadi On prime R-submodules. **89i:13013**
Bouvier, Alain (*with* Dobbs, David E.; Fontana, Marco) Universally catenarian integral domains. **89m:13007**
Dobbs, David E. *see* **Bouvier, Alain; et al., 89m:13007**
Evans, Michael Wyndham Exoteric homomorphisms. **89b:13018**
Fontana, Marco *see* **Bouvier, Alain; et al., 89m:13007**
Schenzel, Peter Examples of Noetherian symbolic blow-up rings. **89j:13015**

Sharp, R. Y. (*with* Taherizadeh, A.-J.) Reductions and integral closures of ideals relative to an Artinian module. **89b:13030**
Taherizadeh, A.-J. *see* **Sharp, R. Y., 89b:13030**
Visweswaran, S. Subrings of $K[y_1, \cdots, y_l]$ of the type $D + I$. **89f:13020**

13A18 Valuations and their generalizations

Bastos, Gervasio G. (*with* Viswanathan, T. M.) Torsion-free abelian groups, valuations and twisted group rings. **89h:13005**
Buzási, Károly (*with* Vishnyakova, N. I.) Description of modules with two generators over a non-Noetherian valuation ring. (Russian) **89f:13003**
Vishnyakova, N. I. *see* **Buzási, Károly, 89f:13003**
Viswanathan, T. M. *see* **Bastos, Gervasio G., 89h:13005**

Items with secondary classifications in 13A18

Anderson, D. D. (*with* Pascual, Joaquin) Regular ideals in commutative rings, sublattices of regular ideals, and Prüfer rings. **89a:13001**
— Nonfinitely generated ideals in valuation domains. **89a:13002**
— (*with* Anderson, David F.) Some remarks on star operations and the class group. **89f:13024**
Anderson, David F. A general theory of class groups. **89f:13023**
— (*with* Ryckaert, Alain) The class group of $D + M$. **89h:13008**
— *see also* **Anderson, D. D., 89f:13024**
Bouvier, Alain (*with* Kabbaj, Salah) Examples of Jaffard domains. **89k:13019**
Fuchs, László[1] (*with* Shelah, Saharon) Kaplansky's problem on valuation rings. **89e:13030**
Hermida Alonso, José Ángel Fitting ideals and valuation rings. **89f:13013**
Huckaba, James A. ★ Commutative rings with zero divisors. **89e:13001**
Kabbaj, Salah *see* **Bouvier, Alain, 89k:13019**
Kijima, Daiji Cuts of ordered fields. **89k:12015**
Krause, Ulrich On monoids of finite real character. **89i:20102**
Pascual, Joaquin *see* **Anderson, D. D., 89a:13001**
Ryckaert, Alain *see* **Anderson, David F., 89h:13008**
Shelah, Saharon *see* **Fuchs, László**[1]**, 89e:13030**
Zanardo, Paolo Quasi-isomorphisms of finitely generated modules over valuation domains. (Italian summary) **89j:13016**

13A20 Brauer groups [see also 12Gxx, 16A16]

DeMeyer, F. R. (*with* Ford, T. J.) Computing the Brauer-Long group of $\mathbf{Z}/2$ dimodule algebras. **89i:13005**
Ford, T. J. On the Brauer group of a Laurent polynomial ring. **89h:13006**
— *see also* **DeMeyer, F. R., 89i:13005**
Kanzaki, Teruo (*with* Watanabe, Yutaka) Azumaya algebras split by real closure. **89j:13003**
Riehm, C. The Schur subgroup of the Brauer group of cyclotomic rings of integers. **89c:13005**
Tilborghs, F. (*with* Van Oystaeyen, F.) Brauer-Wall algebras graded by $Z_2 \times \mathbf{Z}$. **89k:13004**
Van den Bergh, Michel A note on graded Brauer groups. **89c:13006**
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Landiya, A. N. The Brauer group of some affine cones. (Russian. English and Georgian summaries) **89b:14024**
Le Bruyn, L. Quiver concomitants are often reflexive Azumaya. **89g:16030**
Merkur′ev, A. S. Milnor K-theory and Galois cohomology. **89k:12009**
Pop, Florian Galoissche Kennzeichnung p-adisch abgeschlossener Körper. [Galois characterization of p-adically closed fields] **89k:12014**
Verschoren, A. Norms and generalized class groups. **89c:13011**

13A99 None of the above, but in this section

Beck, István Coloring of commutative rings. **89i:13006**
Dragomir, Sever Silvestru (*with* Matei, St.) Congruences of Chebyshev type. (Romanian summary) **89b:13004**
Jaballah, Ali Minimale Erzeugendensysteme und minimale Primteiler von monomialen Radikalidealen. [Minimal systems of generators and minimal prime divisors of monomial radical ideals] **89d:13002**
Matei, St. *see* **Dragomir, Sever Silvestru, 89b:13004**
Richman, Fred Nontrivial uses of trivial rings. **89g:13003**

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Brownawell, W. Dale Note on a paper of P. Philippon: "Zero estimates in commutative algebraic groups" [Bull. Soc. Math. France **114** (1986), no. 3, 355–383]. **89a:11075**
Ford, T. J. Homomorphisms of progenerator modules under a change of base ring. **89a:13015**
Hirano, Yasuyuki (*with* Suenaga, Takashi) Generalizations of von Neumann regular rings and n-like rings. **89k:16032**
Maryland, Wallace, Jr. Weak inclusion of rings and partially ordered sets. **89g:06007**
Matsuda, Ryûki Notes on torsion-free abelian semigroup rings. **89h:20093**
(Philippon, Patrice) *see* **Brownawell, W. Dale, 89a:11075**
Rizvi, S. Tariq Commutative rings for which every continuous module is quasi-injective. **89e:13009**
Suenaga, Takashi *see* **Hirano, Yasuyuki, 89k:16032**

13Bxx Ring extensions and related topics

13B02 Extension theory

Gilmer, Robert (*with* Heinzer, William) On Jónsson algebras over a commutative ring. **89a:13004**
Heinzer, William *see* **Gilmer, Robert, 89a:13004**
Krempa, Jan Unit groups and commutative ring extensions. **89j:13004**
Mesablishvili, B. N. The lattice of separable subalgebras of the radical extension of a connected commutative ring. (Russian. English and Georgian summaries) **89b:13005**
Sato, Junro (*with* Yoshida, Ken-ichi) The LCM-stability on polynomial extensions. **89a:13005**
Valtonen, Erik Some homological properties of commutative semitrivial ring extensions. **89k:13005**
Yoshida, Ken-ichi *see* **Sato, Junro, 89a:13005**

Items with secondary classifications in 13B02

Dobbs, David E. (*with* Mulay, S. B.) Domains integral over each underring. **89f:13005**
— (*with* Mulay, S. B.) Flat underrings. **89f:13006**
Mulay, S. B. *see* **Dobbs, David E., 89f:13005** *and* **89f:13006**

13B05 Galois theory

Faith, Carl On the Galois theory of commutative rings. II. Automorphisms induced in residue rings. **89c:13007**
Kikumasa, Isao (*with* Nagahara, Takasi) Primitive elements of cyclic extensions of commutative rings. **89b:13006**
— (*with* Nagahara, Takasi) On primitive elements of Galois extensions of commutative rings. (*see* **89k:16001**)
Nagahara, Takasi *see* **Kikumasa, Isao, 89b:13006** *and* (**89k:16001**)
Paques, A. On the primitive element and normal basis theorems. **89a:13006**
Wagner, Heidrun ★ Charakterisierung von kubischen Galoiserweiterungen. (German) [Characterization of cubic Galois extensions] **89e:13002**
Waterhouse, William C. Tame objects for finite commutative Hopf algebras. **89d:13003**
Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**

Items with secondary classifications in 13B05

DeMeyer, F. R. (*with* Harrison, David Kent; Miranda, Rick) Quadratic forms over $\mathbf{Q}$ and Galois extensions of commutative rings. **89m:11036**
Dzhanelidze, G. Z. The fundamental theorem of Galois theory. (Russian) **89k:18008**
Harrison, David Kent *see* **DeMeyer, F. R.; et al., 89m:11036**
Kersten, I. (*with* Michaliček, Johannes) Kummer theory without roots of unity. **89h:12009**
Michaliček, Johannes *see* **Kersten, I., 89h:12009**
Miranda, Rick *see* **DeMeyer, F. R.; et al., 89m:11036**
Nagata, Masayoshi *see* **Nowicki, Andrzej Władysław, 89b:13009**
Nowicki, Andrzej Władysław (*with* Nagata, Masayoshi) Rings of constants for k-derivations in $k[x_1, \cdots, x_n]$. **89b:13009**
Shirayanagi, Kiyoshi Algebras associated with LSGOP. **89f:12009**

13B10 Automorphisms and derivations

Drużkowski, Ludwik M. Formulae for the inverse of a polynomial automorphism of $\mathbf{C}^2$. (Polish summary) **89m:13002**
Formanek, Edward Two notes on the Jacobian conjecture. **89b:13007**
Kishimoto, Kazuo[1] (*with* Nowicki, Andrzej Władysław) A note on the Jacobian conjecture in two variables. **89d:13004**
Meisters, Gary H. (*with* Olech, Czesław) A poly-flow formulation of the Jacobian conjecture. (Russian summary) **89j:13005**
Molinelli, Silvia On differentiations and birational integral extensions. **89e:13003**
Nagata, Masayoshi *see* **Nowicki, Andrzej Władysław, 89b:13009**
Nakai, Yoshikazu *see* **Nowicki, Andrzej Władysław, 89h:13007**
Nowicki, Andrzej Władysław (*with* Nagata, Masayoshi) Rings of constants for k-derivations in $k[x_1, \cdots, x_n]$. **89b:13009**
— On the Jacobian conjecture in two variables. **89f:13004**
— (*with* Nakai, Yoshikazu) On Appelgate-Onishi's lemmas. **89h:13007**
— *see also* **Kishimoto, Kazuo**[1]**, 89d:13004**
Olech, Czesław *see* **Meisters, Gary H., 89j:13005**
Praagman, C. Roots, iterations and logarithms of formal automorphisms. **89j:13006**
Soublin, Jean-Pierre Puissances divisées en caractéristique non nulle. [Divided powers in nonzero characteristic] **89b:13010**
Teja, Boris Höhere Derivationen bei lokalen Ringerweiterungen. [Higher derivations in local ring extensions] **89d:13005**
Ueno, Kazuo Multiplicative Jordan decomposition in $\mathrm{Aut}_{\mathbf{C}}\,\mathbf{C}[[x_1, \cdots, x_n]]$ and the exponential map. **89i:13007**
Wright, David Lee Formal inverse expansion and the Jacobian conjecture. **89b:13008**
Wu, Xiao Long A case of the Jacobian conjecture. **89m:13003**

Items with secondary classifications in 13B10

Abu-Saymeh, Sadi (*with* Ikeda, Masatoshi) On the higher derivations of communitive [commutative] rings. **89d:13019**
Ikeda, Masatoshi *see* **Abu-Saymeh, Sadi, 89d:13019**

13B15 Ramification theory

Items with secondary classifications in 13B15

Alonso Tarrio, Leovigildo M. A cardinality theorem for fibers. (Spanish. English summary) **89i:14008**

13B20 Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)

Anderson, David F. (*with* Ryckaert, Alain) The class group of $D + M$. **89h:13008**

Barucci, Valentina (*with* Dobbs, David E.; Mulay, S. B.) Integrally closed factor domains. **89g:13004**

Brumatti, P. (*with* Simis, A.; Vasconcelos, W. V.) Normal Rees algebras. **89b:13011**

Dobbs, David E. (*with* Mulay, S. B.) Domains integral over each underring. **89f:13005**

— (*with* Mulay, S. B.) Flat underrings. **89f:13006**

— *see also* **Barucci, Valentina; et al., 89g:13004**

Lucas, Thomas G. Characterizing when $R[X]$ is integrally closed. **89h:13009**

Mulay, S. B. *see* **Dobbs, David E., 89f:13005; 89f:13006** *and* **Barucci, Valentina; et al., 89g:13004**

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Sally, Judith D. Nonsplitting of prime divisors. **89a:13007**

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Items with secondary classifications in 13B20

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Anderson, David F. A general theory of class groups. **89f:13023**

— *see also* **Anderson, D. D., 89f:13024**

Becerra, Linda Tidy Noether lattices. **89a:06038**

Cinquegrani, Maria Grazia Some properties of divided domains. (Italian) **89b:13040**

Dobbs, David E. (*with* Fontana, Marco) Seminormal rings generated by algebraic integers. **89e:11064**

Fontana, Marco *see* **Dobbs, David E., 89e:11064**

Geller, S. (*with* Reid, Les; Weibel, C.) The cyclic homology and K-theory of curves. **89m:14006**

Glaz, Sarah Factoriality and finiteness properties of subalgebras over which $k[x_1, \cdots, x_n]$ is faithfully flat. **89e:13008**

Heinzer, William (*with* Lantz, David) Jónsson extensions of one-dimensional semilocal domains. **89e:13017**

Katz, Daniel (*with* Ratliff, L. J., Jr.) Two notes on ideal-transforms. **89a:13003**

— (*with* Ratliff, L. J., Jr.) On the prime divisors of IJ when I is integrally closed. **89k:13003**

— Note on multiplicity. **89d:13017**

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Molinelli, Silvia On differentiations and birational integral extensions. **89e:13003**

Nashier, Budh When is a regular local ring a locality? **89j:13023**

Orlando, Marina Henselization of absolutely integrally closed rings. (Italian. English summary) **89b:13041**

Portelli, Dario (*with* Spangher, Walter) On the divisor class groups of a two-dimensional local ring and its form ring. **89g:13009**

Ratliff, L. J., Jr. Δ-closures of ideals and rings. **89j:13001**

— *see also* **Katz, Daniel, 89a:13003** *and* **89k:13003**

Rees, David (*with* Sally, Judith D.) General elements and joint reductions. **89h:13034**

Reid, Les *see* **Geller, S.; et al., 89m:14006**

Ryckaert, Alain Factorialité de l'algèbre affine de certaines formes quadratiques. [Unique factorization property for the affine algebra of certain quadratic forms] **89f:13029**

Sally, Judith D. *see* **Rees, David, 89h:13034**

Shkol′nikov, Yu. A. Investigation of the normality of affine hypersurfaces. (Russian) **89k:14084**

Spangher, Walter *see* **Portelli, Dario, 89g:13009**

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Vasconcelos, W. V. The structure of certain ideal transforms. **89e:13027**

Weibel, C. *see* **Geller, S.; et al., 89m:14006**

13B25 Polynomials over commutative rings

Cahen, Paul-Jean (*with* Haouat, Youssef) Polynômes, dérivées et différences finies divisées à valeurs entières sur un anneau de pseudo-valuation. (English summary) [Integer-valued polynomials, derivatives and finite divided differences on a pseudovaluation domain] **89h:13010**

— (*with* Haouat, Youssef) Polynômes à valeurs entières sur un anneau de pseudovaluation. (English summary) [Integer-valued polynomials on a pseudovaluation domain] **89f:13007**

Chabert, Jean-Luc Idéaux de polynômes et idéaux de valeurs. (English summary) [Polynomial ideals and ideals of values] **89j:13007**

Dobbs, David E. (*with* Fontana, Marco) Sur les suites dimensionnelles et une classe d'anneaux distingués qui les déterminent. (English summary) [On dimension sequences and a class of distinguished rings that determines them] **89f:13008**

Fontana, Marco *see* **Dobbs, David E., 89f:13008**

Gubeladze, I. Dzh. On the division class groups of divisible monoids. (Russian. English and Georgian summaries) **89c:13008**

Haouat, Youssef Spectre d'anneaux de polynômes à plusieurs variables sur une suite croissante d'anneaux. [The spectrum of multivariate polynomial rings over an increasing sequence of rings] **89c:13009**

— *see also* **Cahen, Paul-Jean, 89f:13007** *and* **89h:13010**

Lascoux, Alain La résultante de deux polynômes. [The resultant of two polynomials] **89b:13012**

Naudé, Cornelia Polynomial rings that are bcs-rings. **89m:13004**

Trzepizur, A. Identité polynomiale sur un anneau commutatif. [Polynomial identity over a commutative ring] **89f:13009**

Turnwald, G. Permutable chains of polynomials of odd degree. **89f:13010**

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Asanuma, Teruo Fibre rings and polynomial rings. **89f:13030**

Bouvier, Alain (*with* Dobbs, David E.; Fontana, Marco) Universally catenarian integral domains. **89m:13007**

Brownawell, W. Dale Bounds for the degrees in the Nullstellensatz. **89b:12001**

— Borne effective pour l'exposant dans le théorème des zéros. (English summary) [An effective bound for the exponent in the Nullstellensatz] **89b:12002**

— *see also* **Philippon, Patrice, 89h:12003**

Dobbs, David E. *see* **Bouvier, Alain; et al., 89m:13007**

Fischer, Klaus G. Symmetric polynomials and Hall's theorem. **89c:05057**

Fontana, Marco *see* **Bouvier, Alain; et al., 89m:13007**

Gerboud, Gilbert Exemples d'anneaux A pour lesquels $(\binom{X}{n})_{n\in\mathbf{N}}$ est une base du A-module des polynômes à valeurs entières sur A. (English summary) [Examples of domains A for which $(\binom{X}{n})_{n\in\mathbf{N}}$ is a basis of the A-module of integer-valued polynomials over A] **89h:13025**

— Polynômes à valeurs entières sur l'anneau des entiers de Gauss. (English summary) [Integral-valued polynomials over the ring of Gaussian integers] **89m:11097**

Grigor′ev, D. Yu. (*with* Vorob′ev, N. N., Jr.) Solving systems of polynomial inequalities in subexponential time. **89h:13001**

Gubeladze, I. Dzh. On the K-theory of complete projective algebras. (Russian. English and Georgian summaries) **89g:18020**

(Günter, N. M.) *see* **Renschuch, Bodo; et al., 89c:13003**

Hamann, Eloise (*with* Houston, Evan; Johnson, Jon L.) Properties of uppers to zero in $R[x]$. **89j:13019**

Haouat, Youssef Spectre d'anneaux de polynômes sur une suite de modules. [The spectrum of polynomial rings over a sequence of modules] **89j:13002**

Houston, Evan *see* **Hamann, Eloise; et al., 89j:13019**

Johnson, Jon L. *see* **Hamann, Eloise; et al., 89j:13019**

Kabbaj, Salah La formule de la dimension pour les S-domaines forts universels. [The dimension formula for universal strong S-domains] **89b:13024**

Kollár, János Sharp effective Nullstellensatz. **89h:12008**

Martin, Mary B. (*with* Smith, William W.) The Picard group of certain polynomial rings. **89b:13017**

Nöbauer, Wilfried Some remarks on permutable chains of polynomials. **89c:11039**

Paques, A. On the primitive element and normal basis theorems. **89a:13006**

Philippon, Patrice On the article "Bounds for the degrees in the Nullstellensatz" [Ann. of Math. (2) **126** (1987), no. 3, 557–591; MR 89b:12001] by W. D. Brownawell. (French) **89h:12003**

Rasputin, G. G. H-bases of polynomial ideals. (Russian. English and German summaries) **89h:13003**

— *see also* **Renschuch, Bodo; et al., 89c:13003**

Renschuch, Bodo (*with* Roloff, Hartmut; Rasputin, G. G.) Beiträge zur konstruktiven Theorie der Polynomideale. XXIII. Vergessene Arbeiten des Leningrader Mathematikers N. M. Gjunter zur Theorie der Polynomideale. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XXIII. Forgotten works of the Leningrad mathematician N. M. Günter on the theory of polynomial ideals] **89c:13003**

Roloff, Hartmut *see* **Renschuch, Bodo; et al., 89c:13003**

Ryckaert, Alain Factorialité de l'algèbre affine de certaines formes quadratiques. [Unique factorization property for the affine algebra of certain quadratic forms] **89f:13029**

Sato, Junro (*with* Yoshida, Ken-ichi) The LCM-stability on polynomial extensions. **89a:13005**

Shkol′nikov, Yu. A. Investigation of the normality of affine hypersurfaces. (Russian) **89k:14084**

Smith, William W. *see* **Martin, Mary B., 89b:13017**

Vasconcelos, W. V. (*with* Weibel, C.) bcs rings. **89h:13015**

Vorob′ev, N. N., Jr. *see* **Grigor′ev, D. Yu., 89h:13001**

Weibel, C. *see* **Vasconcelos, W. V., 89h:13015**

Wiid, F. G. J. Noetherian rings of dimension one are pole assignable. **89h:13016**

Yoshida, Ken-ichi *see* **Sato, Junro, 89a:13005**

Zeilberger, Doron Toward a combinatorial proof of the Jacobian conjecture? **89c:05009**

13B30 Quotients and localization

Call, Frederick W. Contracted primes of the complete ring of quotients. **89k:13007**

Gibson, Gavin J. Direct limit systems and flat dimension of generalized fractions. **89a:13008**

Hutson, H. L. On zero-dimensional rings of quotients and the geometry of minimal primes. **89a:13009**

Kim, Joong-Ho A note on the quotient ring $R((X))$ of the power series ring $R[[X]]$. **89i:13008**

Sally, Judith D. Spots over analytically normal local domains. **89f:13011**

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Arapović, Miroslav Some results on reduced rings. (Serbo-Croatian summary) **89f:13001**

Ballet, B. (*with* Dessagnes, Nicole) Anneaux de polynômes sur un anneau de Mori. [Polynomial rings over a Mori ring] **89h:13024**

Dessagnes, Nicole Intersections d'anneaux de Mori—exemples. [Examples of intersections of Mori rings] **89j:13017**

— *see also* **Ballet, B., 89h:13024**

Gibson, Gavin J. (*with* O'Carroll, L.) Direct limit systems, generalized fractions and complexes of Cousin type. **89j:13013**

Lucas, Thomas G. Characterizing when $R[X]$ is integrally closed. **89h:13009**

O'Carroll, L. *see* **Gibson, Gavin J., 89j:13013**

Rizvi, S. Tariq Commutative rings for which every continuous module is quasi-injective. **89e:13009**

Verschoren, A. Local cohomology and quasicoherent sheaves. **89d:14002**

Wexler-Kreindler, Elena Microlocalisation, platitude et théorie de torsion. [Microlocalization, flatness and torsion theory] **89j:32017**

Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**

13B35 Completions

Nishimura, Jun-ichi Ideal-adic completion of Noetherian rings. **89k:13008**

Items with secondary classifications in 13B35

Facchini, Alberto Pure-injective envelope of a commutative ring and localizations. **89j:13009**
Sally, Judith D. Spots over analytically normal local domains. **89f:13011**
Schenzel, Peter Asymptotic sequences and prime divisors of the completion of local rings. **89j:13010**
Wintenberger, Jean-Pierre Une généralisation d'un théorème de Tate-Sen-Ax. (English summary) [A generalization of a Tate-Sen-Ax theorem] **89k:13006**

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Gilmer, Robert (*with* Heinzer, William) On the imbedding of a direct product into a zero-dimensional commutative ring. **89m:13005**
Heinzer, William *see* **Gilmer, Robert, 89m:13005**
Hibi, Takayuki Every affine graded ring has a Hodge algebra structure. **89c:13010**
Matsuda, Ryûki (*with* Satô, Kôjirô) Kronecker function rings of semigroups. **89a:13010**
Ogoma, Tetsushi Fibre products of Noetherian rings. **89f:13012**
Satô, Kôjirô *see* **Matsuda, Ryûki, 89a:13010**
Schutte, H. J. Transcendental and algebraic extensions of commutative rings. **89b:13013**
Tyc, Andrzej Differential basis, p-basis, and smoothness in characteristic $p > 0$. **89e:13004**
Verschoren, A. Norms and generalized class groups. **89c:13011**

Items with secondary classifications in 13B99

Cohen, Daniel E. Closure relations. Buchberger's algorithm, and polynomials in infinitely many variables. **89a:68113**
Glaz, Sarah Regular symmetric algebras. **89b:13014**
Krempa, Jan Unit groups and commutative ring extensions. **89j:13004**
Manders, Kenneth On algebraic geometry over rings with exponentiation. **89d:14036**
Menini, Claudia Cohen-Macaulay and Gorenstein finitely graded rings. **89i:13030**
Ngô Việt Trung *see* **Simis, A., 89i:13015**
Schenzel, Peter Filtrations and Noetherian symbolic blow-up rings. **89b:13029**
Simis, A. (*with* Ngô Việt Trung) The divisor class group of ordinary and symbolic blow-ups. **89i:13015**
Waterhouse, William C. Discriminants of étale algebras and related structures. **89a:11046**

13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

Anderson, D. D. (*with* Dobbs, David E.) Flatness, LCM-stability, and related module-theoretic properties. **89a:13011**
Bhatwadekar, S. M. Analytic isomorphism and category of finitely generated modules. **89i:13009**
Buchweitz, Ragnar-Olaf (*with* Eisenbud, David; Herzog, Jürgen) Cohen-Macaulay modules on quadrics. **89g:13005**
Cutkosky, Steven D. Factorization of complete ideals. **89d:13006**
Dafni, Galia (*with* Vaserstein, L. N.) Matrix zeros of quadratic equations. **89j:13008**
Dimitrić, Radoslav A note on isomorphism of endomorphism algebras of modules over valuation domains. **89k:13009**
Dobbs, David E. *see* **Anderson, D. D., 89a:13011**
Eisenbud, David (*with* Herzog, Jürgen) The classification of homogeneous Cohen-Macaulay rings of finite representation type. **89c:13012**
— *see also* **Buchweitz, Ragnar-Olaf; et al., 89g:13005**
Eklof, Paul C. (*with* Fuchs, László[1]) Baer modules over valuation domains. **89g:13006**
Fuchs, László[1] *see* **Eklof, Paul C., 89g:13006**
Glaz, Sarah Regular symmetric algebras. **89b:13014**
Haefner, Jeremy Direct sum behavior of lattices over sigma-I rings. **89d:13007**
— (*with* Levy, Lawrence S.) Commutative orders whose lattices are direct sums of ideals. **89e:13005**
Hermida Alonso, José Ángel Fitting ideals and valuation rings. **89f:13013**
Herzog, Jürgen (*with* Sanders, Herbert) Indecomposable syzygy-modules of high rank over hypersurface rings. **89h:13011**
— *see also* **Eisenbud, David, 89c:13012** *and* **Buchweitz, Ragnar-Olaf; et al., 89g:13005**
Jaballah, Ali Monomiale Ideale und mengentheoretische vollständige Durchschnitte. [Monomial ideals and set-theoretic complete intersections] **89h:13012**
Johnson, E. W. Modules: duals and principally generated fake duals. **89a:13012**
Levy, Lawrence S. *see* **Haefner, Jeremy, 89e:13005**
Mader, Adolf (*with* Vinsonhaler, C.) Torsion-free E-modules. **89i:13010**
Mandal, Satyagopal (*with* Roy, Amit) Generating ideals in polynomial rings. **89c:13013**
McAdam, S. (*with* Ratliff, L. J., Jr.) Bounds related to projective equivalence classes of ideals. **89k:13010**
Mohamed, Saad H. (*with* Müller, Bruno J.) Dual continuous modules over commutative Noetherian rings. **89i:13011**
Müller, Bruno J. *see* **Mohamed, Saad H., 89i:13011**
Nashier, Budh (*with* Nichols, Warren) Patching modules over commutative squares. **89d:13008**
Nichols, Warren *see* **Nashier, Budh, 89d:13008**
O'Carroll, L. A uniform Artin-Rees theorem and Zariski's main lemma on holomorphic functions. **89h:13013**
Ratliff, L. J., Jr. (*with* Rush, David E.) Note on I-good filtrations and Noetherian Rees rings. **89a:13013**
— *see also* **McAdam, S., 89k:13010**
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Rush, David E. Reflexive D-rings. **89f:13014**
— *see also* **Ratliff, L. J., Jr., 89a:13013**
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Vaserstein, L. N. *see* **Dafni, Galia, 89j:13008**
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Wiegand, Roger (*with* Wiegand, Sylvia) Decompositions of torsionfree modules over affine curves. **89m:13006**
— Nilpotent elements in Grothendieck rings. **89k:13011**
Wiegand, Sylvia Ranks of indecomposable modules over one-dimensional rings. **89k:13012**
— *see also* **Wiegand, Roger, 89m:13006**

Items with secondary classifications in 13C05

Bruns, Winfried (*with* Vetter, Udo) ★ Determinantal rings. **89i:13001**
Byun, H. Power equivalence of presentations. **89i:13012**
Franzen, Berthold (*with* Göbel, Rüdiger) Nonstandard uniserial modules over valuation domains. **89e:13029**
Göbel, Rüdiger *see* **Franzen, Berthold, 89e:13029**
Herzog, Jürgen (*with* Kühl, Michael) Maximal Cohen-Macaulay models over Gorenstein rings and Bourbaki-sequences. **89h:13029**
Huckaba, Sam Reduction numbers for ideals of higher analytic spread. **89b:13023**
Kühl, Michael *see* **Herzog, Jürgen, 89h:13029**
Morales, Marcelo Clôture intégrale d'idéaux et anneaux gradués Cohen-Macaulay. (English summary) [Integral closure of ideals and Cohen-Macaulay graded rings] **89b:13036**
Rasputin, G. G. H-bases of polynomial ideals. (Russian. English and German summaries) **89h:13003**
Simis, A. (*with* Vasconcelos, W. V.) Krull dimension and integrality of symmetric algebras. **89e:13011**
Solberg, Øyvind A graded ring of finite Cohen-Macaulay type. **89k:13021**
Suzuki, Naoyoshi On quasi-Buchsbaum modules. An application of theory of FLC-modules. **89j:13025**
Vasconcelos, W. V. *see* **Simis, A., 89e:13011**
Vetter, Udo *see* **Bruns, Winfried, 89i:13001**
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13C10 Projective and free modules and ideals [see also 18G05]

Alwan, F. H. *see* **Naoum, A. G.; et al., 89f:13015**
Bass, Hyman (*with* Guralnick, R.) Torsion in the Picard group and extension of scalars. **89e:13006**
Beĭdar, K. I. (*with* Stolin, A. A.) The Picard group of a projective limit of rings. (Russian) **89h:13014**
Bhatwadekar, S. M. (*with* Roy, Amit) Some cancellation theorems about projective modules over polynomial rings. **89b:13015**
Byun, H. Power equivalence of presentations. **89i:13012**
DeMeyer, F. R. (*with* Ford, T. J.) Homomorphisms of progenerator modules. **89d:13009**
Ford, T. J. *see* **DeMeyer, F. R., 89d:13009**
Gubeladze, I. Dzh. The Anderson conjecture and a maximal class of monoids over which projective modules are free. **89d:13010**
Guralnick, R. *see* **Bass, Hyman, 89e:13006**
Lindel, H. On projective modules over positively graded rings. **89b:13016**
Mahmood, A. *see* **Naoum, A. G.; et al., 89f:13015**
Martin, Mary B. (*with* Smith, William W.) The Picard group of certain polynomial rings. **89b:13017**
Naoum, A. G. (*with* Mahmood, A.; Alwan, F. H.) On projective and flat modules. (Arabic summary) **89f:13015**
Rao, Ravi A. A question of H. Bass on the cancellative nature of large projective modules over polynomial rings. **89e:13007**
— The Bass-Quillen conjecture in dimension three but characteristic $\neq 2, 3$ via a question of A. Suslin. **89d:13011**
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Smith, William W. *see* **Martin, Mary B., 89b:13017**
Stolin, A. A. *see* **Beĭdar, K. I., 89h:13014**
Swan, Richard G. A simple proof of Gabber's theorem on projective modules over a localized local ring. **89f:13016**
Vasconcelos, W. V. (*with* Weibel, C.) bcs rings. **89h:13015**
Weibel, C. *see* **Vasconcelos, W. V., 89h:13015**
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Caenepeel, S. Cancellation theorems for projective graded modules. **89h:16024**
Eklof, Paul C. (*with* Fuchs, László[1]) Baer modules over valuation domains. **89g:13006**
Erdoğdu, V. Multiplication modules which are distributive. **89h:13022**
Fuchs, László[1] *see* **Eklof, Paul C., 89g:13006**
Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren) Generators of ideals containing monics. **89d:13001**
Giral Silió, José M. The dependence of the Koszul homology with respect to the generators of an ideal. (Spanish. English summary) **89i:13018**
Kucharz, W. A remark on projective modules. **89b:14034**
Mandal, Satyagopal On set-theoretic intersection in affine spaces. **89h:14038**
Minnaar, F. (*with* Naudé, Cornelia; Naudé, G.; Wiid, F. G. J.) Pole assignability of rings of low dimension. **89c:13023**
Mohan Kumar, N. (*with* Murthy, M. Pavaman; Roy, Amit) A cancellation theorem for projective modules over finitely generated rings. **89j:18009**
Murthy, M. Pavaman Zero-cycles, splitting of projective modules and number of generators of a module. **89f:14011**
— *see also* **Mohan Kumar, N.; et al., 89j:18009**
Nashier, Budh *see* **Gilmer, Robert; et al., 89d:13001**
Naudé, Cornelia *see* **Minnaar, F.; et al., 89c:13023**
Naudé, G. *see* **Minnaar, F.; et al., 89c:13023**
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Sanada, Katsunori Calculations of the Noetherian different. **89f:13022**
Schmidt-Göttsch, Karsten Bounds and definability over fields. **89b:12012**
Wiid, F. G. J. *see* **Minnaar, F.; et al., 89c:13023**
Yanik, Joe Strongly projective algebras and invertible algebras. **89a:13017**

13C11 Injective and flat modules and ideals [see also 18G05]

Bazzoni, Silvana Injective dimension of some divisible modules over a valuation domain. **89d:13012**
Enochs, Edgar E. Remarks on commutative Noetherian rings whose flat modules have flat injective envelopes. **89h:13017**
Evans, Michael Wyndham Exoteric homomorphisms. **89b:13018**
Facchini, Alberto Pure-injective envelope of a commutative ring and localizations. **89j:13009**
Glaz, Sarah Factoriality and finiteness properties of subalgebras over which $k[x_1,\cdots,x_n]$ is faithfully flat. **89e:13008**
Rizvi, S. Tariq Commutative rings for which every continuous module is quasi-injective. **89e:13009**

Items with secondary classifications in 13C11

Al-Ezeh, H. The pure spectrum of a PF-ring. **89k:13002**
Alwan, F. H. *see* **Naoum, A. G.; et al., 89f:13015**
Call, Frederick W. Quasicoherent modules on quasi-affine schemes. **89d:14025**
Kucera, T. G. Positive Deissler rank and the complexity of injective modules. **89i:03066**
Mahmood, A. *see* **Naoum, A. G.; et al., 89f:13015**
Naoum, A. G. (*with* Mahmood, A.; Alwan, F. H.) On projective and flat modules. (Arabic summary) **89f:13015**
Wexler-Kreindler, Elena Microlocalisation, platitude et théorie de torsion. [Microlocalization, flatness and torsion theory] **89j:32017**

13C12 Torsion modules and ideals

Fuchs, László[1] (*with* Monari-Martinez, E.) On modules over valuation domains whose finitely generated submodules are direct sums of cyclics. **89a:13014**
Monari-Martinez, E. *see* **Fuchs, László**[1]**, 89a:13014**

Items with secondary classifications in 13C12

Ahsan, J. Rings characterized by their torsion cyclic modules. **89m:16050**
Bergman, George M. (*with* Galvin, F.) Transversals of families in complete lattices, and torsion in product modules. **89f:06006**
Facchini, Alberto Pure-injective envelope of a commutative ring and localizations. **89j:13009**
Galvin, F. *see* **Bergman, George M., 89f:06006**
Göbel, Rüdiger New aspects for two classical theorems on torsion splitting. **89h:13019**
Rush, David E. Integrally closed torsionless rings. **89f:13027**
— Torsionfree modules over one-dimensional Noetherian rings. **89m:13011**

13C13 Other special types

Abu-Saymeh, Sadi On prime R-submodules. **89i:13013**
El-Bast, Zeinab Abd (*with* Smith, Patrick F.) Multiplication modules. **89f:13017**
— (*with* Smith, Patrick F.) Multiplication modules and theorems of Mori and Mott. **89f:13018**
Ford, T. J. Homomorphisms of progenerator modules under a change of base ring. **89a:13015**
Hadwin, Donald W. (*with* Kerr, Jeanne Wald) Scalar-reflexive rings. **89d:13013**
Herzog, Jürgen Linear Cohen-Macaulay modules on integral quadrics. **89a:13016**
Irwin, John M. (*with* Khabbaz, S. A.) Submodules of direct products. **89b:13019**
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Lyubeznik, Gennady On the arithmetical rank of monomial ideals. **89b:13020**
Ma, Frank Splitting in integral extensions, Cohen-Macaulay modules and algebras. **89e:13010**
Smith, Patrick F. Some remarks on multiplication modules. **89f:13019**
— *see also* **El-Bast, Zeinab Abd, 89f:13017** *and* **89f:13018**
Yoshino, Yuji Separated ultraproducts and big Cohen-Macaulay modules. **89g:13007**

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Auslander, Maurice (*with* Reiten, Idun) Almost split sequences for Z-graded rings. **89b:13031**
Brennan, Joseph P. (*with* Herzog, Jürgen; Ulrich, Bernd) Maximally generated Cohen-Macaulay modules. **89j:13027**
Buzási, Károly (*with* Vishnyakova, N. I.) Description of modules with two generators over a non-Noetherian valuation ring. (Russian) **89f:13003**
Carbonne, Philippe Anneaux de Bezout, Hermite et Kaplansky "universels". ["Universal" Bezout, Hermite and Kaplansky rings] **89b:13033**
Göbel, Rüdiger (*with* Goldsmith, B.) Essentially indecomposable modules which are almost free. **89f:20059**
Goldsmith, B. *see* **Göbel, Rüdiger, 89f:20059**
Herzog, Jürgen *see* **Brennan, Joseph P.; et al., 89j:13027**
Hiremath, V. A. Coregular modules. **89c:16032**
Huneke, Craig (*with* Ulrich, Bernd) Residual intersections. **89j:13024**
Kasch, Friedrich ★ Partiell invertierbare Homomorphismen und das Total. (German) [Partially invertible homomorphisms and the total] **89f:16044**
Kawamoto, Takuji *see* **Yoshino, Yuji, 89h:13033**
Lady, E. L. The integral closure of Z in the Grothendieck ring for quasi-isomorphism classes of finite rank torsion free modules over a Dedekind domain. **89b:20117**
Reiten, Idun *see* **Auslander, Maurice, 89b:13031**
Schenzel, Peter Filtrations and Noetherian symbolic blow-up rings. **89b:13029**

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Yoshino, Yuji (*with* Kawamoto, Takuji) The fundamental module of a normal local domain of dimension 2. **89h:13033**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Anderson, David F. (*with* Bouvier, Alain; Dobbs, David E.; Fontana, Marco; Kabbaj, Salah) On Jaffard domains. **89c:13014**
— (*with* Dobbs, David E.; Kabbaj, Salah; Mulay, S. B.) Universally catenarian domains of $D+M$ type. **89i:13014**
Bouvier, Alain (*with* Dobbs, David E.; Fontana, Marco) Universally catenarian integral domains. **89m:13007**
— *see also* **Anderson, David F.; et al., 89c:13014**
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Huckaba, Sam Reduction numbers for ideals of higher analytic spread. **89b:13023**
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— *see also* **Anderson, David F.; et al., 89c:13014** *and* **89i:13014**
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Schenzel, Peter Asymptotic sequences and prime divisors of the completion of local rings. **89j:13010**
Simis, A. (*with* Vasconcelos, W. V.) Krull dimension and integrality of symmetric algebras. **89e:13011**
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Visweswaran, S. Subrings of $K[y_1,\cdots,y_t]$ of the type $D+I$. **89f:13020**
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Bouvier, Alain (*with* Kabbaj, Salah) Examples of Jaffard domains. **89k:13019**
Doretti, Lucia A condition on the homology groups of the Eagon-Northcott complex. (Italian. English summary) **89a:13018**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Homological properties of pure injective resolutions. **89i:13017**
Girolami, Florida Power series rings over globalized pseudovaluation domains. **89e:13018**
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Koh, Jee Super height of an ideal in a Noetherian ring. **89c:13021**
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Rodicio, Antonio G. On a result of Avramov. **89k:13014**
Sally, Judith D. Spots over analytically normal local domains. **89f:13011**
Sharp, R. Y. Certain countably generated big Cohen-Macaulay modules are balanced. **89m:13014**
Tong, Wen Ting Some homological dimensions and semihereditary rings. (Chinese. English summary) **89j:13011**

13C99 None of the above, but in this section

Avramov, Luchezar L. (*with* Kustin, Andrew R.; Miller, Matthew) Poincaré series of modules over local rings of small embedding codepth or small linking number. **89k:13013**
Evans, E. Graham, Jr. (*with* Griffith, Phillip) Binomial behavior of Betti numbers for modules of finite length. **89d:13014**
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Ngô Việt Trung *see* **Simis, A., 89i:13015**
Pellikaan, Ruud Projective resolutions of the quotient of two ideals. **89c:13015**
Restuccia, Gaetana Formes linéaires et algèbres symétriques. (English summary) [Linear forms and symmetric algebras] **89b:13025**
Simis, A. (*with* Ngô Việt Trung) The divisor class group of ordinary and symbolic blow-ups. **89i:13015**

Items with secondary classifications in 13C99

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Drápal, A. *see* **Bican, L.; et al., 89b:15045**
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Ratliff, L. J., Jr. Δ-closures of ideals and rings. **89j:13001**
Watanabe, Junzo The Dilworth number of Artinian rings and finite posets with rank function. **89k:13015**
Wiid, F. G. J. Approximating PA. **89j:93053**

13Dxx Homological methods

13D03 Cohomology of commutative rings and algebras

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Guo, Wen Bin (*with* Yuan, Xiang Huan) Some properties of exterior powers of modules. (Chinese. English summary) **89m:13009**
Halperin, Stephen The nonvanishing of the deviations of a local ring. **89d:13015**

Lescot, Jack Séries de Poincaré des modules multi-gradués sur les anneaux monomiaux. [Poincaré series of multigraded modules over monomial rings] **89m:13010**
Rodicio, Antonio G. Some characterizations of smooth, regular, and complete intersection algebras. **89e:13013**
— On a result of Avramov. **89k:13014**
Ulrich, Bernd Vanishing of cotangent functors. **89c:13016**
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Portelli, Dario (*with* Spangher, Walter) On the divisor class groups of a two-dimensional local ring and its form ring. **89g:13009**
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Villarreal, R. H. Rees algebras and Koszul homology. **89m:13015**

13D05 Homological dimension

Asensio Mayor, J. (*with* Martínez Hernández, J.) Flat envelopes in commutative rings. **89i:13016**
Beccari, Giannina (*with* Massaza, Carla) Perfect homogeneous polynomial ideals of height two, with standard basis of maximal cardinality. (Italian summary) **89b:13026**
Eklof, Paul C. (*with* Shelah, Saharon) A calculation of injective dimension over valuation domains. **89c:13017**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Homological properties of pure injective resolutions. **89i:13017**
Evans, E. Graham, Jr. (*with* Griffith, Phillip) Syzygies: the codimension of zeros of a nonzero section. **89e:13014**
Griffith, Phillip *see* **Evans, E. Graham, Jr., 89e:13014**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 89i:13017**
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Massaza, Carla *see* **Beccari, Giannina, 89b:13026**
Rodicio, Antonio G. On the finiteness of the projective dimension of certain ideals. **89h:13018**
Shelah, Saharon *see* **Eklof, Paul C., 89c:13017**
Tong, Wen Ting Some homological dimensions and semihereditary rings. (Chinese. English summary) **89j:13011**

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Gillet, H. (*with* Soulé, C.) Intersection theory using Adams operations. **89d:14005**
Pellikaan, Ruud Projective resolutions of the quotient of two ideals. **89c:13015**
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13D10 Deformations and infinitesimal methods [see also 14D15, 16A58, 32Gxx]

André, Michel Reg ouvert et complexe cotangent. (English summary) [The open set Reg and the cotangent complex] **89b:13027**

Items with secondary classifications in 13D10

Huneke, Craig (*with* Ulrich, Bernd) Algebraic linkage. **89e:13023**
— (*with* Ulrich, Bernd) Residual intersections. **89j:13024**
— (*with* Ulrich, Bernd) Minimal linkage and the Gorenstein locus of an ideal. **89e:13024**
Ulrich, Bernd *see* **Huneke, Craig, 89e:13023; 89e:13024** *and* **89j:13024**

13D15 Grothendieck group, *K*-theory [see also 14F15, 18F25, 18F30, 19Axx]

Auslander, Maurice (*with* Reiten, Idun) Grothendieck groups of algebras with nilpotent annihilators. **89e:13015**
Ischebeck, Friedrich Seminormality and groups of *K*-theory. (*see* **89f:32001**)
Reiten, Idun *see* **Auslander, Maurice, 89e:13015**
Yanik, Joe Strongly projective algebras and invertible algebras. **89a:13017**

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Brumfiel, G. W. The real spectrum of an ideal and *KO*-theory exact sequences. **89c:18009**
Gubeladze, I. Dzh. On the *K*-theory of complete projective algebras. (Russian. English and Georgian summaries) **89g:18020**
Herzog, Jürgen (*with* Sanders, Herbert) The Grothendieck group of invariant rings and of simple hypersurface singularities. **89b:14004**
Kapranov, M. M. On the derived category and *K*-functor of coherent sheaves on intersections of quadrics. **89f:14014**
Lady, E. L. The integral closure of Z in the Grothendieck ring for quasi-isomorphism classes of finite rank torsion free modules over a Dedekind domain. **89b:20117**
Rao, Ravi A. A question of H. Bass on the cancellative nature of large projective modules over polynomial rings. **89e:13007**
Sanders, Herbert *see* **Herzog, Jürgen, 89b:14004**
Wiegand, Roger Nilpotent elements in Grothendieck rings. **89k:13011**

13D25 Complexes [see also 14Mxx]

Boffi, Giandomenico The case of the submaximal minors: a finishing touch. **89e:13016**
Buchsbaum, David A. Resolutions and representations of GL(n). **89j:13012**
Doretti, Lucia A condition on the homology groups of the Eagon-Northcott complex. (Italian. English summary) **89a:13018**
García Roig, J.-L. A generalization of Wright's inequality. **89c:13018**
— An application of a theorem of E. Davis to Koszul complexes. **89c:13019**
Gibson, Gavin J. (*with* O'Carroll, L.) Direct limit systems, generalized fractions and complexes of Cousin type. **89j:13013**
Giral Silió, José M. The dependence of the Koszul homology with respect to the generators of an ideal. (Spanish. English summary) **89i:13018**
Gover, Eugene (*with* Ragusa, Alfio) Koszul complexes with isomorphic homology. **89a:13019**
Jeong, Jong-Woo Some properties of Koszul complexes. **89i:13019**
Klimek, Jacek A resolution of the square of a determinantal ideal associated to a symmetric matrix. **89j:13014**
Lyubeznik, Gennady A new explicit finite free resolution of ideals generated by monomials in an *R*-sequence. **89c:13020**
O'Carroll, L. *see* **Gibson, Gavin J., 89j:13013**
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Items with secondary classifications in 13D25

Akin, Kaan Representations of GL(n) and Schur algebras. **89k:20055**
Buchweitz, Ragnar-Olaf (*with* Eisenbud, David; Herzog, Jürgen) Cohen-Macaulay modules on quadrics. **89g:13005**
Eisenbud, David *see* **Buchweitz, Ragnar-Olaf; et al., 89g:13005**
Herzog, Jürgen Linear Cohen-Macaulay modules on integral quadrics. **89a:13016**
— *see also* **Buchweitz, Ragnar-Olaf; et al., 89g:13005**
Hochster, Melvin Intersection problems and Cohen-Macaulay modules. **89b:13022**
Józefiak, Tadeusz (*with* Weyman, Jerzy) Representation-theoretic interpretation of a formula of D. E. Littlewood. **89g:05013**
Porter, Timothy Erratum: "Some categorical results in the theory of crossed modules in commutative algebras" [J. Algebra **109** (1987), no. 2, 415–429; MR 88k:18010]. **89h:18008**
Pragacz, Piotr (*with* Weyman, Jerzy) On the construction of resolutions of determinantal ideals: a survey. **89d:14063**
Roberts, Paul Calvin Le théorème d'intersection. (English summary) [The intersection theorem] **89b:14008**
Weyman, Jerzy *see* **Pragacz, Piotr, 89d:14063** *and* **Józefiak, Tadeusz, 89g:05013**

13D30 Torsion theory [see also 13C12, 16A63, 18E40]

Göbel, Rüdiger New aspects for two classical theorems on torsion splitting. **89h:13019**

Items with secondary classifications in 13D30

Evans, Michael Wyndham Exoteric homomorphisms. **89b:13018**
Wexler-Kreindler, Elena Microlocalisation, platitude et théorie de torsion. [Microlocalization, flatness and torsion theory] **89j:32017**

13D99 None of the above, but in this section

Thompson, Mary L. Cohen-Macaulay simplicial complexes. **89f:13021**

Items with secondary classifications in 13D99

Avramov, Luchezar L. (*with* Kustin, Andrew R.; Miller, Matthew) Poincaré series of modules over local rings of small embedding codepth or small linking number. **89k:13013**
Dutta, S. P. A special case of positivity. **89e:13028**
Evans, E. Graham, Jr. (*with* Griffith, Phillip) Binomial behavior of Betti numbers for modules of finite length. **89d:13014**
Griffith, Phillip *see* **Evans, E. Graham, Jr., 89d:13014**
Kustin, Andrew R. *see* **Avramov, Luchezar L.; et al., 89k:13013**
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Schuster, H.-W. (*with* Vogt, Axel) Bad extensions of analytic algebra. **89b:32013**
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Johnson, E. W. Modules: duals and principally generated fake duals. **89a:13012**
McAdam, S. (*with* Ratliff, L. J., Jr.) Persistent primes and projective extensions of ideals. **89i:13003**
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13E10 Artinian rings and modules, finite-dimensional algebras

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Reiten, Idun Cohen-Macaulay modules over isolated singularities. **89c:14003**
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Kreuzer, Martin (*with* Kunz, E.) Traces in strict Frobenius algebras and strict complete intersections. **89c:14022**
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— Multiplication modules which are distributive. **89h:13022**
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Facchini, Alberto Pure-injective envelope of a commutative ring and localizations. **89j:13009**
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— (*with* Levy, Lawrence S.) Commutative orders whose lattices are direct sums of ideals. **89e:13005**
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Cámpoli, Oscar A. A principal ideal domain that is not a Euclidean domain. **89h:11066**
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13F15 Factorial rings, unique factorization domains

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13F20 Polynomial rings [see also 11C08]

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Glaz, Sarah On the coherence and weak dimension of the rings $R\langle x\rangle$ and $R(x)$. **89k:13018**
Hamann, Eloise (*with* Houston, Evan; Johnson, Jon L.) Properties of uppers to zero in $R[x]$. **89j:13019**
Houston, Evan *see* **Hamann, Eloise; et al., 89j:13019**
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Kim, Kyoung-A Numbers of generators of maximal ideals in polynomial rings. **89a:13021**
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Bouvier, Alain (*with* Kabbaj, Salah) Examples of Jaffard domains. **89k:13019**
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— (*with* Tubbs, Robert) Large transcendence degree revisited. II. The CM case. **89h:11043**
— Local Diophantine Nullstellen inequalities. **89h:11041**
Cahen, Paul-Jean (*with* Haouat, Youssef) Polynômes, dérivées et différences finies divisées à valeurs entières sur un anneau de pseudo-valuation. (English summary) [Integer-valued polynomials, derivatives and finite divided differences on a pseudovaluation domain] **89h:13010**
— (*with* Haouat, Youssef) Polynômes à valeurs entières sur un anneau de pseudovaluation. (English summary) [Integer-valued polynomials on a pseudovaluation domain] **89f:13007**
Formanek, Edward Two notes on the Jacobian conjecture. **89b:13007**
Gerboud, Gilbert Polynômes à valeurs entières sur l'anneau des entiers de Gauss. (English summary) [Integral-valued polynomials over the ring of Gaussian integers] **89m:11097**
Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren) Generators of ideals containing monics. **89d:13001**
Glaz, Sarah Factoriality and finiteness properties of subalgebras over which $k[x_1,\cdots,x_n]$ is faithfully flat. **89e:13008**
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Jaballah, Ali Minimale Erzeugendensysteme und minimale Primteiler von monomialen Radikalidealen. [Minimal systems of generators and minimal prime divisors of monomial radical ideals] **89d:13002**
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McKay, James H. (*with* Wang, Stuart Sui Sheng) An elementary proof of the automorphism theorem for the polynomial ring in two variables. **89k:14017**
— (*with* Wang, Stuart Sui Sheng) On the inversion formula for two polynomials in two variables. **89m:14008**
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Girolami, Florida Power series rings over globalized pseudovaluation domains. **89e:13018**
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Praagman, C. Roots, iterations and logarithms of formal automorphisms. **89j:13006**
Redfield, R. H. Nonembeddable o-rings. **89k:06015**
Strouse, Elizabeth Embedding the algebra of formal power series in several variables into a Banach algebra. **89e:46056**
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13F30 Discrete valuation rings

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— (*with* Smith, Patrick F.) Multiplication modules and theorems of Mori and Mott. **89f:13018**
Fleischer, Isidore Abstract Prüfer ideal theory. **89e:06015**
Lang, Jeffrey (*with* Blass, Piotr) A method for computing the kernel of a map of divisor classes of local rings in characteristic $p\neq 0$. **89f:14036**
Smith, Patrick F. Some remarks on multiplication modules. **89f:13019**
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13G05 Integral domains

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Bouvier, Alain (*with* Kabbaj, Salah) Examples of Jaffard domains. **89k:13019**
Dobbs, David E. (*with* Fedder, Richard; Fontana, Marco) G-domains and spectral spaces. **89i:13026**
Facchini, Alberto A tilting module over commutative integral domains. **89c:13028**
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Houston, Evan (*with* Lucas, Thomas G.; Viswanathan, T. M.) Primary decomposition of divisorial ideals in Mori domains. **89i:13028**
— (*with* Zafrullah, Muhammad) Integral domains in which each t-ideal is divisorial. **89i:13027**
Kabbaj, Salah *see* **Bouvier, Alain, 89k:13019**
Kanemitsu, Mitsuo On locally pseudovaluation domains. **89c:13029**
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Anderson, David F. (*with* Dobbs, David E.; Kabbaj, Salah; Mulay, S. B.) Universally catenarian domains of $D+M$ type. **89i:13014**
Bouvier, Alain (*with* Dobbs, David E.; Fontana, Marco) Universally catenarian integral domains. **89m:13007**
Dobbs, David E. (*with* Fedder, Richard; Fontana, Marco) Abstract Riemann surfaces of integral domains and spectral spaces. (Italian summary) **89f:14002**
— *see also* **Anderson, David F.; et al., 89i:13014** *and* **Bouvier, Alain; et al., 89m:13007**
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Kabbaj, Salah La formule de la dimension pour les S-domaines forts universels. [The dimension formula for universal strong S-domains] **89b:13024**
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Martin, Mary B. (*with* Smith, William W.) The Picard group of certain polynomial rings. **89b:13017**
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13Hxx Local rings and semilocal rings

13H05 Regular local rings

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Nashier, Budh When is a regular local ring a locality? **89j:13023**
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Cutkosky, Steven D. Factorization of complete ideals. **89d:13006**
Dutta, S. P. A special case of positivity. **89e:13028**

Evans, E. Graham, Jr. (*with* Griffith, Phillip) Binomial behavior of Betti numbers for modules of finite length. **89d:13014**
Griffith, Phillip *see* **Evans, E. Graham, Jr., 89d:13014**
Horrocks, G. Vector bundles on the punctured spectrum of a local ring. II. **89b:14018**
Jeong, Jong-Woo Some properties of Koszul complexes. **89i:13019**
Keller, Bernhard (*with* Vossieck, Dieter) Dualité de Grothendieck-Roos et basculement. (English summary) [Grothendieck-Roos duality and tilting] **89j:16035**
Rodicio, Antonio G. On a result of Avramov. **89k:13014**
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13H10 Special types (Macaulay, Gorenstein, etc.)

Billera, L. J. (*with* Cushman, R.; Sanders, J. A.) The Stanley decomposition of the harmonic oscillator. **89m:13013**
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De Stefano, S. (*with* Guidetti, Renato) On perfect ideals. (Italian. English summary) **89c:13030**
Fröberg, Ralf (*with* Gottlieb, Christian; Häggkvist, Roland) Gorenstein rings as maximal subrings of $k[[X]]$ with fixed conductor. **89h:13027**
Goto, Shiro Maximal Buchsbaum modules over regular local rings and a structure theorem for generalized Cohen-Macaulay modules. **89h:13028**
— (*with* Nishida, Kohji) Rings with only finitely many isomorphism classes of indecomposable maximal Buchsbaum modules. **89e:13022**
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Häggkvist, Roland *see* **Fröberg, Ralf; et al., 89h:13027**
Herzog, Jürgen (*with* Kühl, Michael) Maximal Cohen-Macaulay models over Gorenstein rings and Bourbaki-sequences. **89h:13029**
Hibi, Takayuki Union and glueing of a family of Cohen-Macaulay partially ordered sets. **89b:13034**
— Study of three-dimensional algebras with straightening laws which are Gorenstein domains. III. **89k:13020**
— Level rings and algebras with straightening laws. **89g:13010**
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13Jxx Topological rings [see also 16A80]

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13J05 Power series rings

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Schoutens, H. Approximation properties for some non-Noetherian local rings. **89b:14006**

13J10 Complete rings

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13J15 Henselian rings

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Orlando, Marina Henselization of absolutely integrally closed rings. (Italian. English summary) **89b:13041**

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13J25 Ordered rings [see also 06F25, 16A86]

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13K05 Witt vectors and related rings

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13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

Franzen, Berthold (*with* Göbel, Rüdiger) Nonstandard uniserial modules over valuation domains. **89e:13029**
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Mines, Ray (*with* Richman, Fred; Ruitenburg, Wim) ★ A course in constructive algebra. **89d:03066**
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Tucker, J. V. *see* **Stoltenberg-Hansen, V., 89j:03036**

13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M05 Structure

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13M10 Polynomials

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Steinberg, Robert On Dickson's theorem on invariants. **89c:11177**

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Beck, István Coloring of commutative rings. **89i:13006**

13N05 Differential algebra [see also 12H05]

Abu-Saymeh, Sadi (*with* Ikeda, Masatoshi) On the higher derivations of communitive [commutative] rings. **89d:13019**
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Larson, Richard G. *see* **Grossman, Robert, 89e:13031**

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Morrison, Sally D. Continuous derivations. **89h:12012**
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— Curves, differential operators and finite-dimensional algebras. **89e:14026**
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14–XX Algebraic geometry

14–01 Elementary exposition; textbooks

Mumford, David ★ The red book of varieties and schemes. **89k:14001**

14–02 Advanced exposition (research surveys, monographs, etc.)

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Beauville, Arnaud Le problème de Schottky: une introduction. [The Schottky problem: an introduction] **89d:14041**
(King, James R.) *see* **Manin, Yu. I., 89d:32001**
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14–03 Historical (must also be assigned at least one classification number from Section 01)

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Andreotti, Aldo ★ Selecta di opere. Vol. I. (Italian) [Selected works. Vol. I] **89i:01136**
Dieudonné, Jean The beginnings of Italian algebraic geometry. (*see* **89b:01002**)
Gario, Paola Histoire de la résolution des singularités des surfaces algébriques (une discussion entre C. Segre et P. del Pezzo). [History of the resolution of singularities of algebraic surfaces (a discussion between C. Segre and P. del Pezzo)] **89d:01039**
Gray, Jeremy ★ Linear differential equations and group theory from Riemann to Poincaré. **89d:01041**
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14–04 Explicit machine computation and programs (not the theory of computation or programming)

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Arnon, Dennis S. (*with* McCallum, Scott) A polynomial-time algorithm for the topological type of a real algebraic curve. **89k:12005**
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14–06 Proceedings, conferences, etc.

(Faour, N.) *see* **Mathematical analysis and its applications, 89b:14002**
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Sundance, UT ★ Algebraic geometry, Sundance 1986. **89b:14001**
Symposium:
  Algebraic geometry ★ Algebraic geometry, Sendai, 1985. **89a:14001**
Theory of moduli ★ Theory of moduli. **89e:14002**

Items with secondary classifications in 14–06

(Ihara, Yasutaka) *see* **Galois representations and arithmetic algebraic geometry, 89a:11004**
(Rokhlin, V. A.) *see* **Seminar: Topology and Geometry, 89f:57001**
(Viro, O. Ya.) *see* **Seminar: Topology and Geometry, 89f:57001**

Items listed otherwise than by author

Galois representations and arithmetic algebraic geometry ★ Galois representations and arithmetic algebraic geometry. **89a:11004**
Kyoto ★ Galois representations and arithmetic algebraic geometry. **89a:11004**
Lecture Notes in Mathematics ★ Topology and geometry—Rohlin Seminar. **89f:57001**
Problems concerning stratified spaces and analytic varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**
Seminar:
  Topology and Geometry ★ Topology and geometry—Rohlin Seminar. **89f:57001**
Symposium:
  Galois representations and arithmetic algebraic geometry ★ Galois representations and arithmetic algebraic geometry. **89a:11004**
  Problems Concerning Stratified Spaces and Analytic Varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**
Tokyo ★ Galois representations and arithmetic algebraic geometry. **89a:11004**

14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Items with secondary classifications in 14A05

Cucker, Felipe Sur les anneaux de sections globales du faisceau structural sur le spectre réel. (English summary) [On the global section rings of the structure sheaf on the real spectrum] **89b:14033**
Diop, Mahmadou Théorèmes des zéros réels et des éléments positifs avec paramètres. (English summary) [Theorems on real zeros and positive elements with parameters] **89f:14019**
Lyubeznik, Gennady On the arithmetical rank of monomial ideals. **89b:13020**
O'Carroll, L. A uniform Artin-Rees theorem and Zariski's main lemma on holomorphic functions. **89h:13013**

14A10 Varieties

Carrà Ferro, Giuseppa On the tangent space to an affine differential variety at a given point. **89a:14003**
Fried, M. Irreducibility results for separated variables equations. **89a:14004**
Traverso, Carlo A study on algebraic algorithms: the normalization. **89a:14005**

Items with secondary classifications in 14A10

Neubauer, Michael G. The variety of pairs of matrices with rank$(AB - BA) \leq 1$. **89h:14001**

14A15 Schemes

Neeman, Amnon Steins, affines and Hilbert's fourteenth problem. **89d:14001**

Items with secondary classifications in 14A15

Schmidt-Göttsch, Karsten Bounds and definability over fields. **89b:12012**

14A20 Generalizations (algebraic spaces, motifs)

Dobbs, David E. (*with* Fedder, Richard; Fontana, Marco) Abstract Riemann surfaces of integral domains and spectral spaces. (Italian summary) **89f:14002**
Fedder, Richard *see* **Dobbs, David E.; et al., 89f:14002**
Fontana, Marco *see* **Dobbs, David E.; et al., 89f:14002**

Items with secondary classifications in 14A20

Schwartz, Niels Real closed rings. **89b:14035**

14A25 Elementary questions

Neubauer, Michael G. The variety of pairs of matrices with rank$(AB - BA) \leq 1$. **89h:14001**

Items with secondary classifications in 14A25

Nowicki, Andrzej Władysław On the Jacobian equation $J(f, g) = 0$ for polynomials in $k[x, y]$. **89d:12003**
Richter, Günther Categorical remarks on Hilbert's Nullstellensatz. **89h:18001**

14A99 None of the above, but in this section

Cherenack, P. The topology of ind-affine sets. **89f:14003**

Items with secondary classifications in 14A99

Farkas, Daniel R. The Diophantine nature of some constructions at infinity. **89m:20008**
Gamboa, J. M. Un exemple d'ensemble constructible à adhérence non constructible. (English summary) [An example of a constructible set with nonconstructible closure] **89f:32015**

14Bxx Local theory [see also 32Bxx]

14B05 Singularities [see also 14E15, 32B30, 32C40, 58C27]

Briançon, J. (*with* Granger, M.; Maisonobe, Philippe) Le nombre de modules du germe de courbe plane $x^a + y^b = 0$. [The number of moduli of the plane curve germ $x^a + y^b = 0$] **89c:14001**
Cano, F. Techniques pour la désingularisation des champs de vecteurs. [Techniques for the desingularization of vector fields] **89a:14006**
Cutkosky, Steven D. Weil divisors and symbolic algebras. **89e:14003**
Dieterich, Ernst The Auslander-Reiten quiver of an isolated singularity. **89a:14007**
Ebeling, Wolfgang Vanishing lattices and monodromy groups of isolated complete intersection singularities. **89b:14003**
Flenner, Hubert Extendability of differential forms on nonisolated singularities. **89j:14001**
Gau, Yih-Nan Embedded topological classification of quasi-ordinary singularities. **89m:14002**
Granger, M. *see* **Briançon, J.; et al., 89c:14001**
Herzog, Jürgen (*with* Sanders, Herbert) The Grothendieck group of invariant rings and of simple hypersurface singularities. **89b:14004**
Iarrobino, A. Tangent cone of a Gorenstein singularity. **89c:14002**
Knop, Friedrich Ein neuer Zusammenhang zwischen einfachen Gruppen und einfachen Singularitäten. (English summary) [A new connection between simple groups and simple singularities] **89b:14005**
Kunz, E. (*with* Waldi, Rolf) Der Führer einer Gorensteinvarietät. [The conductor of a Gorenstein variety] **89f:14004**
Lipkovski, Aleksandar Newton polyhedra and irreducibility. **89g:14003**
Lipman, Joseph Topological invariants of quasi-ordinary singularities. **89m:14001**
— *see also* **Gau, Yih-Nan, 89m:14002**
Maisonobe, Philippe *see* **Briançon, J.; et al., 89c:14001**
Orbanz, U. On equimultiplicity of the normal cone. **89a:14008**
Reiten, Idun Cohen-Macaulay modules over isolated singularities. **89c:14003**
Runge, Bernhard Quasihomogeneous singularities. **89k:14002**
Sanders, Herbert *see* **Herzog, Jürgen, 89b:14004**
Steenbrink, J. Mixed Hodge structures and singularities: a survey. **89c:14004**
Waldi, Rolf *see* **Kunz, E., 89f:14004**
Yanagihara, Hiroshi On seminormal local rings and multicross singularities. **89e:14004**

Items with secondary classifications in 14B05

Abhyankar, Shreeram S. Good points of a hypersurface. **89e:14012**
Auslander, Maurice The what, where, and why of almost split sequences. **89f:16039**
— (*with* Reiten, Idun) Almost split sequences for $\mathbf{Z}$-graded rings. **89b:13031**
Barlet, D. Interaction de strates consécutives pour les cycles évanescents. (English summary) [Interaction of consecutive strata for vanishing cycles] **89f:32011**
— (*with* Varchenko, A. N.) Around the intersection form of an isolated singularity of hypersurface. **89j:32012**
Berger, Robert W. On the torsion of the differential module of a curve singularity. **89j:32013**
Brenton, Lawrence (*with* Hill, Richard) On the Diophantine equation $1 = \sum 1/n_i + 1/\prod n_i$ and a class of homologically trivial complex surface singularities. **89d:32023**
Broughton, S. A. Milnor numbers and the topology of polynomial hypersurfaces. **89h:32025**
Burghelea, Dan (*with* Vigué-Poirrier, Micheline) Cyclic homology of commutative algebras. I. **89k:18027**
Cano, F. (*with* Piedra Sánchez, Ramón) Characteristic polygon of surface singularities. **89c:14051**
— Local and global results on the desingularization of three-dimensional vector fields. **89e:14013**
Choudary, A. D. R. (*with* Dimca, A.) Hypersurface singularities, codimension two complete intersections and tangency sets. **89d:14017**
Dimca, A. On analytic abelian coverings. **89c:32020**
— *see also* **Choudary, A. D. R., 89d:14017**
González-Aguilera, Víctor Quotients of the complex projective plane by a finite cyclic group. (Spanish) **89a:14063**
Gonzalez-Sprinberg, Gerardo Désingularisation des surfaces par des modifications de Nash normalisées. [Desingularization of surfaces by normalized Nash modifications] **89a:14015**
Goto, Shiro (*with* Nishida, Kohji) Rings with only finitely many isomorphism classes of indecomposable maximal Buchsbaum modules. **89e:13022**
Granja Barón, Angel Plane analytic curves with contact in the Apéry basis. (Spanish. English summary) **89k:14050**
Hermida Alonso, José Ángel Fitting ideals and valuation rings. **89f:13013**
Herzog, Jürgen (*with* Sanders, Herbert) Indecomposable syzygy-modules of high rank over hypersurface rings. **89h:13011**
Hill, Richard *see* **Brenton, Lawrence, 89d:32023**
Kawamata, Yujiro Crepant blowing-up of 3-dimensional canonical singularities and its application to degenerations of surfaces. **89d:14023**
Kawamoto, Takuji *see* **Yoshino, Yuji, 89h:13033**
Laudal, Olav Arnfinn (*with* Martin, Bernd; Pfister, Gerhard) Moduli of irreducible plane curve singularities with the semigroup $\langle a, b\rangle$. **89a:14033**
— (*with* Pfister, Gerhard) ★ Local moduli and singularities. **89h:14008**
Marot, J. Anneaux excellents en caractéristique zéro. [Excellent rings in characteristic zero] **89h:13026**
Martin, Bernd *see* **Laudal, Olav Arnfinn; et al., 89a:14033** *and* **89h:14008**
Massey, David B. A reduction theorem for the Zariski multiplicity conjecture. **89k:32016**
Moh, T. T. On a stability theorem for local uniformization in characteristic p. **89d:14018**
Morales, Marcelo A note about plurigenera. **89h:14009**
— Clôture intégrale d'idéaux et anneaux gradués Cohen-Macaulay. (English summary) [Integral closure of ideals and Cohen-Macaulay graded rings] **89b:13036**
Mori, Shigefumi (*with* Morrison, David R.; Morrison, Ian) On four-dimensional terminal quotient singularities. **89i:14036**
Morrison, David R. *see* **Mori, Shigefumi; et al., 89i:14036**
Morrison, Ian *see* **Mori, Shigefumi; et al., 89i:14036**
Nakamura, Iku On the equations $x^p + y^q + z^r - xyz = 0$. **89g:32016**
Neumann, Walter D. (*with* Rudolph, Lee) Unfoldings in knot theory. **89j:57017a**
— (*with* Rudolph, Lee) Corrigendum: "Unfoldings in knot theory". **89j:57017b**
Nishida, Kohji *see* **Goto, Shiro, 89e:13022**
Núñez Jiménez, Carolina A. Singularities of monomial curves with more than one component. (Spanish. English summary) **89m:14012**
Ooishi, Akira Genera and arithmetic genera of commutative rings. **89a:13025**
Pellikaan, Ruud Projective resolutions of the quotient of two ideals. **89c:13015**
Pfister, Gerhard *see* **Laudal, Olav Arnfinn; et al., 89a:14033** *and* **89h:14008**
Piedra Sánchez, Ramón *see* **Cano, F., 89c:14051**
Reid, Miles Young person's guide to canonical singularities. **89b:14016**
Reiten, Idun Finite-dimensional algebras and singularities. **89a:16031**
— *see also* **Auslander, Maurice, 89b:13031**
Riemenschneider, Oswald ★ Platonische Zahlentripel als Indikatoren verborgener Beziehungen zwischen einfachen mathematischen Objekten. (German) [Platonic number triples as indicators of hidden relations between simple mathematical objects] **89e:00001**
Ronga, Felice On the singularities of the surface reciprocal to a generic surface in projective space. **89m:14019**
Rudolph, Lee *see* **Neumann, Walter D., 89j:57017a** *and* **89j:57017b**
Saeki, Osamu Cobordism classification of knotted homology 3-spheres in S^5. **89g:57033**
— Topological invariance of weights for weighted homogeneous isolated singularities in $\mathbf{C}^3$. **89k:32017**
Saito, Morihiko Exponents and Newton polyhedra of isolated hypersurface singularities. **89h:32027**
Sanders, Herbert *see* **Herzog, Jürgen, 89h:13011**
Schappert, Albert A characterisation of strictly unimodular plane curve singularities. **89g:14017**
Shubladze, M. Sh. On the homotopy type of the complement to the Milnor fiber of an isolated singularity. (Russian. English and Georgian summaries) **89c:32028**
Smith, Roy Campbell (*with* Varley, Robert) Gauss maps and first order deformations of singular hypersurfaces. **89h:14002**
Steenbrink, J. (*with* Zucker, Steven M.) Polar curves, resolution of singularities and the filtered mixed Hodge structure on the vanishing cohomology. **89a:32011**
van Straten, D. On the Betti numbers of the Milnor fibre of a certain class of hypersurface singularities. **89d:32018**
Tomaru, Tadashi On a class of normal surface singularities determined by Weierstrass points on algebraic curves. **89k:14060**
Varchenko, A. N. Combinatorics and topology of the arrangement of affine hyperplanes in the real space. (Russian) **89c:32029**
— Period mapping and discriminant. **89f:32014**
— *see also* **Barlet, D., 89j:32012**
Varley, Robert *see* **Smith, Roy Campbell, 89h:14002**
Vigué-Poirrier, Micheline *see* **Burghelea, Dan, 89k:18027**
Wall, C. T. C. Functions on quotient singularities. **89c:32021**
Wunram, Jürgen Reflexive modules on quotient surface singularities. **89g:14029**
Yau, Stephen S.-T. Classification of Jacobian ideals invariant by sl$(2, \mathbf{C})$ actions. **89g:32012**
Yoshino, Yuji (*with* Kawamoto, Takuji) The fundamental module of a normal local domain of dimension 2. **89h:13033**
Zucker, Steven M. *see* **Steenbrink, J., 89a:32011**

14B07 Deformations of singularities [see also 14D15, 32C40, 32G05, 32G11, 32G13]

Christophersen, Jan Arthur Monomial curves and obstructions on cyclic quotient singularities. **89a:14009**
Diaz, Steven (*with* Harris, Joseph Daniel) Ideals associated to deformations of singular plane curves. **89m:14003**
Harris, Joseph Daniel *see* **Diaz, Steven, 89m:14003**
Knörrer, Horst Torsionsfreie Moduln bei Deformation von Kurvensingularitäten. [Torsion-free modules in the deformation of curve singularities] **89f:14005**
Smith, Roy Campbell (*with* Varley, Robert) Gauss maps and first order deformations of singular hypersurfaces. **89h:14002**
Varley, Robert *see* **Smith, Roy Campbell, 89h:14002**
Wahl, Jonathan The Jacobian algebra of a graded Gorenstein singularity. **89a:14042**
— Deformations of quasihomogeneous surface singularities. **89j:14002**

Items with secondary classifications in 14B07

Beauville, Arnaud (*with* Mérindol, J.-Y.) Sections hyperplanes des surfaces $K3$. [Hyperplane sections of $K3$ surfaces] **89a:14043**
Chislenko, Yu. S. Decompositions of simple singularities of real functions. **89m:58023**
Ebeling, Wolfgang ★ The monodromy groups of isolated singularities of complete intersections. **89d:32051**
— Vanishing lattices and monodromy groups of isolated complete intersection singularities. **89b:14003**
Edwards, Sarah Ann (*with* Wall, C. T. C.) Nets of quadrics and deformations of $\Sigma^{3(3)}$ singularities. **89i:58011**
Huneke, Craig (*with* Ulrich, Bernd) Residual intersections. **89j:13024**
Knop, Friedrich Ein neuer Zusammenhang zwischen einfachen Gruppen und einfachen Singularitäten. (English summary) [A new connection between simple groups and simple singularities] **89b:14005**
Mérindol, J.-Y. *see* **Beauville, Arnaud, 89a:14043**
Schappert, Albert A characterisation of strictly unimodular plane curve singularities. **89g:14017**
Shustin, E. I. Versal deformations in a space of plane curves of fixed degree. (Russian) **89a:14034**
Ulrich, Bernd Theory and applications of universal linkage. **89k:13022**
— *see also* **Huneke, Craig, 89j:13024**
Wall, C. T. C. *see* **Edwards, Sarah Ann, 89i:58011**

14B10 Infinitesimal methods

Items with secondary classifications in 14B10

Hauser, Herwig (*with* Müller, Gerd) Harmonic and dissonant singularities. **89e:32016**
Müller, Gerd *see* **Hauser, Herwig, 89e:32016**
Smith, Roy Campbell (*with* Varley, Robert) Gauss maps and first order deformations of singular hypersurfaces. **89h:14002**
Varley, Robert *see* **Smith, Roy Campbell, 89h:14002**
Wahl, Jonathan The Jacobian algebra of a graded Gorenstein singularity. **89a:14042**

14B12 Local deformation theory, Artin approximation, etc.

Popescu, Dorin (*with* Roczen, Marko) Algebraization of deformations of exceptional couples. **89i:14001**
Roczen, Marko *see* **Popescu, Dorin, 89i:14001**
Schoutens, H. Approximation properties for some non-Noetherian local rings. **89b:14006**

Items with secondary classifications in 14B12

Hochster, Melvin (*with* Huneke, Craig) Tightly closed ideals. **89b:13003**
Huibregtse, Mark E. (*with* Johnsen, Trygve) Local properties of secant varieties in symmetric products. I. **89i:14025**
Huneke, Craig *see* **Hochster, Melvin, 89b:13003**
Johnsen, Trygve Local properties of secant varieties in symmetric products. II. **89i:14026**
— *see also* **Huibregtse, Mark E., 89i:14025**

14B15 Local cohomology [see also 32C36]

Verschoren, A. Local cohomology and quasicoherent sheaves. **89d:14002**

Items with secondary classifications in 14B15

Flenner, Hubert Extendability of differential forms on nonisolated singularities. **89j:14001**
Gillet, H. (*with* Soulé, C.) Intersection theory using Adams operations. **89d:14005**
Herrmann, Manfred (*with* Ikeda, Shin; Orbanz, U.) ★ Equimultiplicity and blowing up. **89g:13012**
Ikeda, Shin *see* **Herrmann, Manfred; et al., 89g:13012**
(Moonen, B.) *see* **Herrmann, Manfred; et al., 89g:13012**
Ngô Việt Trung Reduction exponent and degree bound for the defining equations of graded rings. **89i:13031**
Orbanz, U. *see* **Herrmann, Manfred; et al., 89g:13012**
Portelli, Dario (*with* Spangher, Walter) On the divisor class groups of a two-dimensional local ring and its form ring. **89g:13009**
Soulé, C. *see* **Gillet, H., 89d:14005**
Spangher, Walter *see* **Portelli, Dario, 89g:13009**

14B25 Local structure of maps: étale, flat, etc. [see also 13-XX, 14E40]

Items with secondary classifications in 14B25

Orbanz, U. On equimultiplicity of the normal cone. **89a:14008**
Schwartz, Niels Open locally semi-algebraic maps. **89j:14017**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Ein, Lawrence The irreducibility of the Hilbert scheme of smooth space curves. **89f:14006**
— Subvarieties of generic complete intersections. **89i:14002**
Ellingsrud, Geir (*with* Strømme, Stein Arild) On a cell decomposition of the Hilbert scheme of points in the plane. **89f:14007**
Gotzmann, Gerd Durch Hilbertfunktionen definierte Unterschemata des Hilbertschemas. [Subschemes of the Hilbert scheme that are defined by Hilbert functions] **89d:14003**
— A stratification of the Hilbert scheme of points in the projective plane. **89k:14003**
Iarrobino, A. Hilbert scheme of points: overview of last ten years. **89b:14007**
Kleppe, Jan O. Nonreduced components of the Hilbert scheme of smooth space curves. **89a:14010**
Schaub, Daniel Générateurs explicites du groupe de Chow du schéma de Hilbert des cubiques de $\mathbf{P}(3,\mathbf{C})$. [Explicit generators of the Chow group of the Hilbert scheme of cubics in $\mathbf{P}(3,\mathbf{C})$] **89m:14004**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 89f:14007**

Items with secondary classifications in 14C05

Ballico, Edoardo (*with* Ellia, Philippe) Bonnes petites composantes des schémas de Hilbert de courbes lisses de $\mathbf{P}^n$. (English summary) [Good components of Hilbert schemes of smooth curves in $\mathbf{P}^n$] **89c:14038**
Chang, Mei Chu Some good unirational families of space curves. **89k:14054**
Collino, Alberto Evidence for a conjecture of Ellingsrud and Strømme on the Chow ring of $\mathrm{Hilb}_d(\mathbf{P}^2)$. **89d:14004**
Elencwajg, G. (*with* Le Barz, P.) Explicit computations in $\mathrm{Hilb}^3\mathbf{P}^2$. **89m:14030**
Ellia, Philippe *see* **Ballico, Edoardo, 89c:14038**
Ellingsrud, Geir (*with* Peskine, Christian) Sur les surfaces lisses de $\mathbf{P}_4$. [Smooth surfaces in $\mathbf{P}_4$] **89j:14023**
Le Barz, P. *see* **Elencwajg, G., 89m:14030**
Mestrano, N. Points rationnels des courbes génériques de $\mathbf{P}^3$. II. (English summary) [Rational points of generic curves in $\mathbf{P}^3$. II] **89f:14021**
Peskine, Christian *see* **Ellingsrud, Geir, 89j:14023**
Rosselló Llompart, F. (*with* Xambó Descamps, S.) Computing Chow groups. **89h:14003**
Xambó Descamps, S. *see* **Rosselló Llompart, F., 89h:14003**

14C10 Equivalence relations

Items with secondary classifications in 14C10

Clemens, Herbert Curves on higher-dimensional complex projective manifolds. **89e:14007**

14C15 Rational equivalence rings

Collino, Alberto Evidence for a conjecture of Ellingsrud and Strømme on the Chow ring of $\mathrm{Hilb}_d(\mathbf{P}^2)$. **89d:14004**
Ischebeck, Friedrich (*with* Schülting, Heinz-Werner) Rational and homological equivalence for real cycles. **89k:14004**
Rosselló Llompart, F. (*with* Xambó Descamps, S.) Computing Chow groups. **89h:14003**
Schülting, Heinz-Werner *see* **Ischebeck, Friedrich, 89k:14004**
Suwa, Noriyuki Sur l'image de l'application d'Abel-Jacobi de Bloch. (English summary) [The image of Bloch's Abel-Jacobi mapping] **89j:14003**
Xambó Descamps, S. *see* **Rosselló Llompart, F., 89h:14003**

Items with secondary classifications in 14C15

Ellingsrud, Geir (*with* Strømme, Stein Arild) On a cell decomposition of the Hilbert scheme of points in the plane. **89f:14007**
Gillet, H. (*with* Messing, William) Cycle classes and Riemann-Roch for crystalline cohomology. **89c:14025**
Gros, Michel (*with* Suwa, Noriyuki) Application d'Abel-Jacobi p-adique et cycles algébriques. [The p-adic Abel-Jacobi mapping and algebraic cycles] **89h:14006a**
— (*with* Suwa, Noriyuki) La conjecture de Gersten pour les faisceaux de Hodge-Witt logarithmique. [Gersten's conjecture for logarithmic Hodge-Witt sheaves] **89h:14006b**
Kraśkiewicz, Witold Some remarks on the hook formula. (Italian summary) **89g:14039**
Lewis, James D. The cylinder correspondence for hypersurfaces of degree n in $\mathbf{P}^n$. **89g:14005**
Lyubeznik, Gennady The number of equations needed to define an algebraic set. **89h:14037**
Messing, William *see* **Gillet, H., 89c:14025**
Srinivas, V. Rational equivalence of 0-cycles on normal varieties over $\mathbf{C}$. **89e:14006**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 89f:14007**
Suwa, Noriyuki *see* **Gros, Michel, 89h:14006a** *and* **89h:14006b**

14C17 Intersection theory

Faltings, Gerd Report on arithmetic intersections. (*see* **89m:81001**)
Gillet, H. (*with* Soulé, C.) Intersection theory using Adams operations. **89d:14005**
Muhammed, Taher Über die Rolle der eingebetteten Komponenten für die Schnittheorie. [On the role of imbedded components for intersection theory] **89j:14004**
Roberts, Paul Calvin Local Chern characters and intersection multiplicities. **89a:14011**
— Le théorème d'intersection. (English summary) [The intersection theorem] **89b:14008**
Soulé, C. *see* **Gillet, H., 89d:14005**
Speiser, Robert Transversality theorems for families of maps. **89k:14005**
Szpiro, Lucien Présentation de la théorie d'Arakélov. [Presentation of Arakelov theory] **89c:14005**

Items with secondary classifications in 14C17

Beilinson, A. A. Height pairing between algebraic cycles. **89h:11027**
Bloch, Spencer Cycles on arithmetic schemes and Euler characteristics of curves. **89b:14014**

Brownawell, W. Dale Note on a paper of P. Philippon: "Zero estimates in commutative algebraic groups" [Bull. Soc. Math. France **114** (1986), no. 3, 355–383]. **89a:11075**
Casas Alvero, E. (*with* Xambó Descamps, S.) Halphen's enumerative theory of conics and its extensions to higher order conditions. **89a:14071**
Colley, Susan Jane Enumerating stationary multiple-points. **89g:14042**
Collino, Alberto Evidence for a conjecture of Ellingsrud and Strømme on the Chow ring of $\mathrm{Hilb}_d(\mathbf{P}^2)$. **89d:14004**
Giuffrida, Salvatore On the intersection of two curves contained in a cubic curve in $\mathbf{P}^3$. (Italian. English summary) **89a:14039**
Hochster, Melvin Intersection problems and Cohen-Macaulay modules. **89b:13022**
Katz, Sheldon H. Iteration of multiple point formulas and applications to conics. **89j:14032**
Kennedy, Gary (*with* Yokura, Shoji) Specialization of Segre classes of singular algebraic varieties. **89k:14094**
Kleiman, Steven L. (*with* Speiser, Robert) Enumerative geometry of nodal plane cubics. **89k:14095**
Laksov, Dan Completed quadrics and linear maps. **89c:14077**
Lang, Serge ★ Introduction to Arakelov theory. **89m:11059**
(Philippon, Patrice) *see* **Brownawell, W. Dale, 89a:11075**
Roberts, Joël Old and new results about the triangle varieties. **89k:14096**
Saito, Takeshi Self-intersection 0-cycles and coherent sheaves on arithmetic schemes. **89h:14021**
Speiser, Robert Enumerating contacts. **89c:14078**
— *see also* **Kleiman, Steven L., 89k:14095**
Vistoli, Angelo Chow groups of quotient varieties. **89b:14012**
Xambó Descamps, S. *see* **Casas Alvero, E., 89a:14071**
Yokura, Shoji *see* **Kennedy, Gary, 89k:14094**

14C20 Divisors, linear systems

Ballico, Edoardo (*with* Beltrametti, Mauro) On 2-spannedness for the adjunction mapping. **89i:14003**
Beltrametti, Mauro *see* **Ballico, Edoardo, 89i:14003**
Degoli, Lando The base varieties of linear systems of quadrics. (Italian. English summary) **89k:14006**
Fujita, Takao On polarized manifolds whose adjoint bundles are not semipositive. **89d:14006**
Ghione, Franco (*with* Vainsencher, Israel) L'inégalité de Castelnuovo-Severi en dimension quelconque. (English summary) [The Castelnuovo-Severi inequality in arbitrary dimension] **89b:14009**
Lazarsfeld, Robert A sharp Castelnuovo bound for smooth surfaces. **89d:14007**
Marchionna, Ermanno On normal Cohen-Macaulay varieties. (Italian. English summary) **89e:14005**
Shastri, A. R. Divisors with finite local fundamental group on a surface. **89h:14004**
Sommese, Andrew John Ample divisors on Gorenstein varieties. **89c:14006**
Vainsencher, Israel *see* **Ghione, Franco, 89b:14009**

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Bando, Shigetoshi (*with* Kobayashi, Ryoichi) Ricci-flat Kähler metrics on affine algebraic manifolds. **89k:32055**
Beauville, Arnaud Annulation du H^1 et systèmes paracanoniques sur les surfaces. [Vanishing of H^1 and paracanonical systems on surfaces] **89i:14032**
Beltrametti, Mauro (*with* Sommese, Andrew John) On generically polarized Gorenstein surfaces of sectional genus two. **89g:14030**
Biancofiore, Aldo (*with* Livorni, Elvira Laura) On the genus of a hyperplane section of a geometrically ruled surface. **89d:14054**
— On the degree of the discriminant locus of a smooth sectional surface of a $(n+2)$-fold with nonnegative Kodaira dimension. **89c:14052**
Chang, Mei Chu (*with* Ran, Z.) Deformations and smoothing of complete linear systems on reducible curves. **89f:14020**
Chiantini, Luca A remark on the cohomology of curves in $\mathbf{P}^3$. **89a:14068**
Cinquegrani, Maria Grazia Nonsingular curves passing through a zero-dimensional subscheme of $\mathbf{P}^2$. **89f:14028**
— On singularities of the curves belonging to some linear system in $\mathbf{P}^2$. **89e:14025**
Coppens, Marc On G. Martens' characterization of smooth plane curves. **89b:14048**
— Smooth curves having infinitely many linear systems g_d^1. I. **89g:14022**
Cutkosky, Steven D. Weil divisors and symbolic algebras. **89e:14003**
Degoli, Lando On the characteristic of the Jacobian of irreducible linear systems of quadrics. (Italian. English summary) **89k:14092**
— Un théorème sur les systèmes linéaires irréductibles de quadriques. (English and Serbo-Croatian summaries) [A theorem on irreducible linear systems of quadrics] **89j:14031**
— Determination of the bases of linear systems of quadrics. (Italian. English summary) **89i:14044**
D'Souza, Harry Threefolds whose hyperplane sections are elliptic surfaces. **89i:14028**
Farkas, H. M. Remarks on Clifford indices. **89j:14018**
Fujita, Takao Classification of noncomplete algebraic varieties. **89c:14050**
Herzog, Bernd Shokurov's nonvanishing theorem for normal surfaces. **89a:14041**
Holme, Audun (*with* Roberts, Joel) On the embeddings of projective varieties. **89i:14009**
Ionescu, Paltin Ample and very ample divisors on surfaces. **89f:14037**
Keem, C. (*with* Kim, Seon Ja) On the Clifford index of a general $(e+2)$-gonal curve. **89m:14016**
Kim, Seon Ja *see* **Keem, C., 89m:14016**
Kobayashi, Ryoichi *see* **Bando, Shigetoshi, 89k:32055**
Lanteri, Antonio Complex projective surfaces with hyperelliptic hyperplane sections. **89m:14020**
Livorni, Elvira Laura *see* **Biancofiore, Aldo, 89d:14054**
Maeda, Hidetoshi On polarized surfaces of sectional genus three. **89h:14027**
Maşek, Vladimir Projective contractions along weighted projective spaces. (Italian summary) **89i:14006**
Pirola, Gian Pietro Base number theorem for abelian varieties. An infinitesimal approach. **89k:14071**
Ran, Z. *see* **Chang, Mei Chu, 89f:14020**
Reider, Igor Vector bundles of rank 2 and linear systems on algebraic surfaces. **89e:14038**
Roberts, Joel *see* **Holme, Audun, 89i:14009**
Serrano, Fernando The adjunction mappings and hyperelliptic divisors on a surface. **89c:14054**
Smith, Roy Campbell (*with* Tapia-Recillas, H.) A note on curves of even genus. **89h:14026**
Sommese, Andrew John *see* **Beltrametti, Mauro, 89g:14030**
Stöhr, Karl-Otto (*with* Viana, Paulo) A variant of Petri's analysis of the canonical ideal of an algebraic curve. **89k:14057**
Tapia-Recillas, H. *see* **Smith, Roy Campbell, 89h:14026**
Viana, Paulo *see* **Stöhr, Karl-Otto, 89k:14057**

14C21 Webs, nets [see also 53A60]

Nakai, Isao Topology of complex webs of codimension one and geometry of projective space curves. **89b:14010**

14C22 Picard groups

Voskresenskiĭ, V. E. Invariant Demazure models. (Russian) (*see* **89a:11006**)

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Arbarello, E. On the Picard group of the moduli space of algebraic curves. (Italian summary) **89a:14029**
Ciliberto, Ciro On rationally determined line bundles on a family of projective curves with general moduli. **89a:14030**
— Errata corrige to: "Rationally determined line bundles on families of curves" [in *The Curves Seminar at Queen's, Vol. IV* (Kingston, ON, 1985–1986), Exp. No. D, Queen's Univ., Kingston, ON, 1986; MR 88j:14032]. **89k:14045**
— (*with* Harris, Joseph Daniel; Miranda, Rick) General components of the Noether-Lefschetz locus and their density in the space of all surfaces. **89k:14061**
Diaz, Steven (*with* Harris, Joseph Daniel) Geometry of Severi varieties. II. Independence of divisor classes and examples. **89g:14014**
Drezet, J.-M. Groupe de Picard des variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [The Picard group of moduli varieties of semistable sheaves over $\mathbf{P}_2(\mathbf{C})$] **89m:14007**
Green, Mark (*with* Lazarsfeld, Robert) Deformation theory, generic vanishing theorems, and some conjectures of Enriques, Catanese and Beauville. **89b:32025**
Harris, Joseph Daniel *see* **Diaz, Steven, 89g:14014** *and* **Ciliberto, Ciro; et al., 89k:14061**
Kunyavskiĭ, B. È. Tori that are split over a Galois extension with group S_3. (Russian) (*see* **89a:11006**)
Lazarsfeld, Robert *see* **Green, Mark, 89b:32025**
Miranda, Rick *see* **Ciliberto, Ciro; et al., 89k:14061**

14C25 Zero-cycles

Davis, Edward D. 0-dimensional subschemes of $\mathbf{P}^2$: lectures on Castelnuovo's function. **89c:14007**
— (*with* Geramita, Anthony V.) Bese's very ampleness theorem and punctured complete intersections. **89c:14008**
— 0-dimensional subschemes of $\mathbf{P}^2$: new application of Castelnuovo's function. **89c:14009**
Geramita, Anthony V. *see* **Davis, Edward D., 89c:14008**
Huibregtse, Mark E. Translation by torsion points and rational equivalence of 0-cycles on abelian varieties. **89j:14005**
Levine, Marc Zero-cycles and K-theory on singular varieties. **89h:14005**
Salberger, Per Zero-cycles on rational surfaces over number fields. **89c:14010**
Schoen, Chad Zero cycles modulo rational equivalence for some varieties over fields of transcendence degree one. **89d:14008**
Srinivas, V. Rational equivalence of 0-cycles on normal varieties over $\mathbf{C}$. **89e:14006**
Swan, Richard G. Zero cycles on quadric hypersurfaces. **89m:14005**

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Elencwajg, G. (*with* Le Barz, P.) Explicit computations in $\mathrm{Hilb}^3\mathbf{P}^2$. **89m:14030**
Iarrobino, A. Hilbert scheme of points: overview of last ten years. **89b:14007**
Le Barz, P. *see* **Elencwajg, G., 89m:14030**
Lyubeznik, Gennady The number of equations needed to define an algebraic set. **89h:14037**
Saito, Takeshi Self-intersection 0-cycles and coherent sheaves on arithmetic schemes. **89h:14021**

14C30 Transcendental methods, Hodge theory [see also 32J25]

Bardelli, Fabio On Grothendieck's generalized Hodge conjecture for a family of threefolds with geometric genus one (a study of the Abel-Jacobi map). **89c:14011**
Clemens, Herbert The local geometry of the Abel-Jacobi mapping. **89b:14011**
— Curves on higher-dimensional complex projective manifolds. **89e:14007**
Durfee, Alan H. (*with* Hain, Richard M.) Mixed Hodge structures on the homotopy of links. **89c:14012**
El Zein, Fouad Théorie de Hodge à coefficients: étude locale. (English summary) [Hodge theory with coefficients: a local study] **89j:14006**
Hain, Richard M. *see* **Durfee, Alan H., 89c:14012**
Schoen, Chad Hodge classes on self-products of a variety with an automorphism. **89c:14013**
Shimizu, Yuji Mixed Hodge structures on cohomologies with coefficients in a polarized variation of Hodge structure. **89k:14007**
Shioda, Tetsuji Algebraic cycles on hypersurfaces in $\mathbf{P}^N$. **89d:14009**

Items with secondary classifications in 14C30

Arapura, Donu Hodge theory with local coefficients and fundamental groups of varieties. **89k:14034**
Bardelli, Fabio Semistable curves, their dual graphs and some applications. **89i:14022**
Beauville, Arnaud Le problème de Torelli. [The Torelli problem] **89a:32020**

Beĭlinson, A. A. Correction to: "Notes on absolute Hodge cohomology" [*Applications of algebraic K-theory to algebraic geometry and number theory, Part I, II* (Boulder, Colo., 1983), 35–68, Amer. Math. Soc., Providence, R.I., 1986; MR 87m:14019]. **89a:14023**
Carlson, James A. The geometry of the extension class of a mixed Hodge structure. **89b:32036**
Charney, Ruth (*with* Lee, Ronnie) Characteristic classes for the classifying spaces of Hodge structures. **89h:32046**
Cox, David A. Generic Torelli and infinitesimal variation of Hodge structure. **89d:14014**
Esnault, Hélène (*with* Viehweg, Eckart) Revêtements cycliques. II (autour du théorème d'annulation de J. Kollár). [Cyclic coverings. II (concerning J. Kollár's vanishing theorem)] **89h:14014**
Flenner, Hubert Extendability of differential forms on nonisolated singularities. **89j:14001**
Gordon, B. Brent Topological and algebraic cycles in Kuga-Shimura varieties. **89j:11059**
Hain, Richard M. On a generalization of Hilbert's 21st problem. **89a:14013**
— The geometry of the mixed Hodge structure on the fundamental group. **89g:14010**
— Higher Albanese manifolds. **89a:14060**
— The de Rham homotopy theory of complex algebraic varieties. II. **89d:14028**
Hamm, Helmut A. Invariants of weighted homogeneous singularities. **89j:32015**
Kashiwara, Masaki (*with* Kawai, Takahiro) Hodge structure and holonomic systems. **89c:32066**
— Poincaré lemma for a variation of polarized Hodge structure. **89e:32033**
Kawai, Takahiro *see* **Kashiwara, Masaki, 89c:32066**
Koehl, Jürgen ★ Algebraische Zykel auf Hilbertschen Modulflächen. (German) [Algebraic cycles on Hilbert modular surfaces] **89a:11062**
Kollár, János Subadditivity of the Kodaira dimension: fibers of general type. **89i:14029**
— Vanishing theorems for cohomology groups. **89j:32039**
Lee, Ronnie (*with* Weintraub, Steven H.) Topology of the Siegel spaces of degree two and their compactifications. **89c:32071**
— *see also* **Charney, Ruth, 89h:32046**
Lewis, James D. The cylinder correspondence for hypersurfaces of degree n in P^n. **89g:14005**
Livné, Ron The average distribution of cubic exponential sums. **89f:11116**
Murty, V. Kumar The Hodge group of an abelian variety. **89k:14073**
Nicas, Andrew J. Mixed Hodge structure in cyclic homology and algebraic K-theory. I. **89f:18007**
Peters, C. A. M. On Arakelov's finiteness theorem for higher-dimensional varieties. **89e:14043**
Pulte, Michael J. The fundamental group of a Riemann surface: mixed Hodge structures and algebraic cycles. **89m:32048**
Saito, Masa-Hiko (*with* Shimizu, Yuji; Usui, Sampei) Variation of mixed Hodge structure and the Torelli problem. **89j:32037**
Saito, Morihiko Mixed Hodge modules. **89g:32019**
— On the derived categories of mixed Hodge modules. **89g:32020**
— Exponents and Newton polyhedra of isolated hypersurface singularities. **89h:32027**
Shimizu, Yuji *see* **Saito, Masa-Hiko; et al., 89j:32037**
Steenbrink, J. Mixed Hodge structures and singularities: a survey. **89c:14004**
— (*with* Zucker, Steven M.) Polar curves, resolution of singularities and the filtered mixed Hodge structure on the vanishing cohomology. **89a:32011**
Usui, Sampei *see* **Saito, Masa-Hiko; et al., 89j:32037**
Viehweg, Eckart *see* **Esnault, Hélène, 89h:14014**
Weintraub, Steven H. *see* **Lee, Ronnie, 89c:32071**
Zucker, Steven M. Degeneration of mixed Hodge structures. **89c:32073**
— *see also* **Steenbrink, J., 89a:32011**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 18F25, 19E15]

Coombes, Kevin R. On the K-theory of curves over finite fields. **89d:14010**
Esnault, Hélène (*with* Viehweg, Eckart) Deligne-Beĭlinson cohomology. **89k:14008**
Friedlander, Eric M. Homology using Chow varieties. **89i:14004**
Geller, S. (*with* Reid, Les; Weibel, C.) The cyclic homology and K-theory of curves. **89m:14006**
Gillet, H. K-theory and intersection theory revisited. **89c:14014**
Gros, Michel (*with* Suwa, Noriyuki) Application d'Abel-Jacobi p-adique et cycles algébriques. [The p-adic Abel-Jacobi mapping and algebraic cycles] **89h:14006a**
— (*with* Suwa, Noriyuki) La conjecture de Gersten pour les faisceaux de Hodge-Witt logarithmique. [Gersten's conjecture for logarithmic Hodge-Witt sheaves] **89h:14006b**
Landsburg, Steven E. Algebraic cycles relative to a smooth principal divisor. **89d:14011**
Levine, Marc Localization on singular varieties. **89c:14015a**
— Erratum to: "Localization on singular varieties". **89c:14015b**
Reid, Les *see* **Geller, S.; et al., 89m:14006**
Seiler, Wolfgang K. λ-rings and Adams operations in algebraic K-theory. **89d:14012**
Srinivas, V. K_1 of the cone over a curve. **89e:14008**
Suwa, Noriyuki *see* **Gros, Michel, 89h:14006a** *and* **89h:14006b**
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Weibel, C. *see* **Geller, S.; et al., 89m:14006**

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Levine, Marc Zero-cycles and K-theory on singular varieties. **89h:14005**
Suwa, Noriyuki Sur l'image de l'application d'Abel-Jacobi de Bloch. (English summary) [The image of Bloch's Abel-Jacobi mapping] **89j:14003**

14C40 Riemann-Roch theorems [see also 14F12, 19E20, 19L10]

Tamme, Günter The theorem of Riemann-Roch. **89d:14013**
Vistoli, Angelo Chow groups of quotient varieties. **89b:14012**

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Gillet, H. (*with* Messing, William) Cycle classes and Riemann-Roch for crystalline cohomology. **89c:14025**
— (*with* Soulé, C.) Intersection theory using Adams operations. **89d:14005**
Green, Barry On the Riemann-Roch theorem for orders in the ring of valuation vectors of a function field. **89d:11107**
Messing, William *see* **Gillet, H., 89c:14025**
Soulé, C. *see* **Gillet, H., 89d:14005**
Van Geel, Jan Maximal orders over curves. **89e:16012**

14C99 None of the above, but in this section

Boratyński, Maksymillian (*with* Greco, Silvio) When does an ideal arise from the Ferrand construction? (Italian summary) **89a:14012**
Greco, Silvio *see* **Boratyński, Maksymillian, 89a:14012**
Yokura, Shoji Algebraic cycles and intersection homology. **89h:14007**

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André, Yves Quatre descriptions des groupes de Galois différentiels. [Four descriptions of differential Galois groups] **89e:12012**
Beĭlinson, A. A. Height pairing between algebraic cycles. **89g:11052**
Koehl, Jürgen ★ Algebraische Zykel auf Hilbertschen Modulflächen. (German) [Algebraic cycles on Hilbert modular surfaces] **89a:11062**
Shioda, Tetsuji Algebraic cycles on hypersurfaces in $\mathbf{P}^N$. **89d:14009**
Tu, Loring W. The connectedness of symmetric and skew-symmetric degeneracy loci: even ranks. **89i:14043**
Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Hain, Richard M. On a generalization of Hilbert's 21st problem. **89a:14013**
Saito, Takeshi Vanishing cycles and differentials of curves over a discrete valuation ring. **89k:14009**
Tretkoff, Marvin Picard-Fuchs differential equations for the quadratic periods of abelian integrals of the first kind. **89b:14013**

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Clemens, Herbert The local geometry of the Abel-Jacobi mapping. **89b:14011**
Cox, David A. Generic Torelli and infinitesimal variation of Hodge structure. **89d:14014**
Givental′, A. B. Twisted Picard-Lefschetz formulas. **89f:32037**
Namba, Makoto A class of differential equations of Fuchsian type. **89a:32023**
Peters, C. A. M. On Arakelov's finiteness theorem for higher-dimensional varieties. **89e:14043**
Salvetti, Mario Arrangements of lines and monodromy of plane curves. **89m:32026**
Silverberg, Alice Mordell-Weil groups of generic abelian varieties in the unitary case. **89f:14048**
Stiller, Peter F. On the classification of elliptic surfaces with $q = 1$. **89c:14057**
Zucker, Steven M. Degeneration of mixed Hodge structures. **89c:32073**

14D10 Arithmetic ground fields (finite, local, global)

Bloch, Spencer Cycles on arithmetic schemes and Euler characteristics of curves. **89b:14014**

Items with secondary classifications in 14D10

Gordon, B. Brent Algebraically defined subspaces in the cohomology of a Kuga fiber variety. **89b:11048**

14D15 Formal methods; deformations [see also 13D10, 14B07, 16A58, 32Gxx]

Artamkin, I. V. On the deformation of sheaves. **89g:14004**

Items with secondary classifications in 14D15

Christophersen, Jan Arthur Monomial curves and obstructions on cyclic quotient singularities. **89a:14009**
Idà, Monica A remark on the algebraic deformations of some complex structures. (Russian summary) **89a:14050**
Popescu, Dorin (*with* Roczen, Marko) Algebraization of deformations of exceptional couples. **89i:14001**
Roczen, Marko *see* **Popescu, Dorin, 89i:14001**
Schapś, M. Moduli of commutative and noncommutative finite covers. **89b:16030**
Seiler, Wolfgang K. Deformations of Weierstrass elliptic surfaces. **89k:14066**
Smith, Roy Campbell (*with* Varley, Robert) Tangent cones to discriminant loci for families of hypersurfaces. **89e:32029**
Varley, Robert *see* **Smith, Roy Campbell, 89e:32029**
Wahl, Jonathan Deformations of quasihomogeneous surface singularities. **89j:14002**

14D20 Algebraic moduli problems {For analytic moduli problems, see 32G13.}

Cox, David A. Generic Torelli and infinitesimal variation of Hodge structure. **89d:14014**
Debarre, Olivier Le théorème de Torelli pour les intersections de trois quadriques. [The Torelli theorem for the intersection of three quadrics] **89k:14010**

Gerritzen, L. (*with* Herrlich, F.; van der Put, Marius) Stable n-pointed trees of projective lines. **89i:14005**
Herrlich, F. *see* **Gerritzen, L.; et al., 89i:14005**
Laudal, Olav Arnfinn (*with* Pfister, Gerhard) ★ Local moduli and singularities. **89h:14008**
(Martin, Bernd) *see* **Laudal, Olav Arnfinn, 89h:14008**
Pfister, Gerhard *see* **Laudal, Olav Arnfinn, 89h:14008**
Plá, Héctor Twisted differential equations with regular singular points. (Spanish. English summary) **89e:14009**
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Shepherd-Barron, N. I. The rationality of some moduli spaces of plane curves. **89k:14011**

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Adler, Mark (*with* van Moerbeke, Pierre) The intersection of four quadrics in $\mathbf{P}^6$, abelian surfaces and their moduli. **89f:14033**
Bhosle, Usha N. Moduli of parabolic G-bundles. **89i:32057**
Cornalba, Maurizio (*with* Harris, Joseph Daniel) Divisor classes associated to families of stable varieties, with applications to the moduli space of curves. **89j:14019**
Drezet, J.-M. Fibrés exceptionnels et variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [Exceptional bundles and moduli varieties of semistable sheaves in $\mathbf{P}_2(\mathbf{C})$] **89e:14016**
Harris, Joseph Daniel *see* **Cornalba, Maurizio, 89j:14019**
Hirschowitz, André Problèmes de Brill-Noether en rang supérieur. (English summary) [Brill-Noether problems for higher-rank vector bundles] **89i:14010**
Itoh, Mitsuhiro Geometry of anti-self-dual connections and Kuranishi map. **89a:53037**
Kollár, János Subadditivity of the Kodaira dimension: fibers of general type. **89i:14029**
Lee, Min Ho Mixed cusp forms and holomorphic forms on elliptic varieties. **89d:11035**
Magid, Andy R. Local structure of representation varieties. **89j:20015**
Maruyama, Masaki The rationality of the moduli spaces of vector bundles of rank 2 on $\mathbf{P}^2$. **89f:14010**
Miró Roig, Rosa M. The moduli space $M^S_{\mathbf{P}^3}(-1, c_2, c_2^2 - 2c_2 + 4)$. **89b:14021**
— Stable rank 3 reflexive sheaves on $\mathbf{P}^3$ with extremal c_3. **89a:14020**
van Moerbeke, Pierre *see* **Adler, Mark, 89f:14033**
(Naruki, Isao) *see* **Maruyama, Masaki, 89f:14010**
Peters, C. A. M. Some remarks about I. Reider's article: "On the infinitesimal Torelli theorem for certain irregular surfaces of general type" [Math. Ann. **280** (1988), no. 2, 285–302; MR 89c:14060]. **89m:14022**
Reider, Igor Bounds for the number of moduli for irregular varieties of general type. **89d:14052**
— On the infinitesimal Torelli theorem for certain irregular surfaces of general type. **89c:14060**
— *see also* **Peters, C. A. M., 89m:14022**
Schumacher, Georg Moduli spaces of polarized Kähler manifolds. **89h:32042**
Silverberg, Alice Cohomology of fiber systems and Mordell-Weil groups of abelian varieties. **89c:11098**
Wehler, Joachim Infinitesimal Torelli theorem. **89k:32044**
— Hypersurfaces of the flag variety: deformation theory and the theorems of Kodaira-Spencer, Torelli, Lefschetz, M. Noether and Serre. **89g:32051**

14D22 Fine structure of moduli spaces

Drezet, J.-M. Groupe de Picard des variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [The Picard group of moduli varieties of semistable sheaves over $\mathbf{P}_2(\mathbf{C})$] **89m:14007**

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Drezet, J.-M. Cohomologie des variétés de modules de hauteur nulle. [Cohomology of moduli varieties of height zero] **89j:14009**
Ein, Lawrence The irreducibility of the Hilbert scheme of smooth space curves. **89f:14006**
Ellingsrud, Geir (*with* Strømme, Stein Arild) On a cell decomposition of the Hilbert scheme of points in the plane. **89f:14007**
Kobayashi, Ryoichi (*with* Todorov, A. N.) Polarized period map for generalized $K3$ surfaces and the moduli of Einstein metrics. **89g:32029**
Le Potier, J. Variétés de modules de faisceaux semi-stables de rang élevé sur $\mathbf{P}_2$. [Moduli varieties of semistable sheaves of high rank on $\mathbf{P}_2$] **89b:14019**
Naruki, Isao On the moduli space $M(0,4)$ of vector bundles. **89a:14021**
Rao, A. Prabhakar Splitting monads of vector bundles. **89k:14027**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 89f:14007**
Todorov, A. N. *see* **Kobayashi, Ryoichi, 89g:32029**
Trautmann, G. Poncelet curves and associated theta characteristics. **89c:14047**

14D25 Geometric invariants [see also 14L30]

Grosshans, Frank D. Separated orbits for certain nonreductive subgroups. **89k:14012**
Kirwan, F. C. Rational intersection cohomology of quotient varieties. II. **89e:14010**
Popov, V. L. Modern developments in invariant theory. **89d:14015**
Teranishi, Yasuo Linear Diophantine equations and invariant theory of matrices. **89k:14013**

Items with secondary classifications in 14D25

Dolgachev, Igor V. Rationality of fields of invariants. **89b:14064**
Drezet, J.-M. Groupe de Picard des variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [The Picard group of moduli varieties of semistable sheaves over $\mathbf{P}_2(\mathbf{C})$] **89m:14007**
Fauntleroy, Amassa Unipotent group actions. Corrections to: "Linear G_a actions on affine spaces and associated rings of invariants" [J. Pure Appl. Algebra **9** (1976/77), no. 2, 195–206; MR **56** #5583]. **89d:14061**
Grosshans, Frank D. Constructing invariant polynomials via Tschirnhaus transformations. **89a:14066**
Kac, Victor G. (*with* Peterson, Dale H.) On geometric invariant theory for infinite-dimensional groups. **89b:22028**
Katsylo, P. I. Rationality of moduli varieties of plane curves of degree $3k$. (Russian) **89m:14011**
Le Bruyn, L. Some remarks on rational matrix invariants. **89k:14025**
Olver, Peter J. Invariant theory and differential equations. **89k:58257**
Peterson, Dale H. *see* **Kac, Victor G., 89b:22028**
Tan, Lin On the Popov-Pommerening conjecture for groups of type A_n. **89k:14081**

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Items with secondary classifications in 14D99

Miyaoka, Yoichi Deformations of a morphism along a foliation and applications. **89e:14011**
Speiser, Robert Transversality theorems for families of maps. **89k:14005**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Cumino, Caterina (*with* Greco, Silvio; Manaresi, Mirella) Hyperplane sections of weakly normal varieties in positive characteristic. **89k:14014**
Davis, Edward D. (*with* Geramita, Anthony V.) Birational morphisms to $\mathbf{P}^2$: an ideal-theoretic perspective. **89a:14014**
Georgiev, G. Kh. *see* **Grigorov, Kh., 89k:14015**
Geramita, Anthony V. *see* **Davis, Edward D., 89a:14014**
Greco, Silvio *see* **Cumino, Caterina; et al., 89k:14014**
Grigorov, Kh. (*with* Georgiev, G. Kh.) Groups of Cremona transformations of degree $(2n+1)$ in $\mathbf{P}_4$. (Bulgarian. English and Russian summaries) **89k:14015**
Kashiwara, Hiroko Fonctions rationnelles de type $(0,1)$ sur le plan projectif complexe. [Rational functions of type $(0,1)$ on the complex projective plane] **89b:14015**
Kurdyka, Krzysztof (*with* Rusek, Kamil) Polynomial-rational bijections of $\mathbf{R}^n$. **89d:14016**
Li, Fu An *see* **Li, Zun Xian,** (Not in MR)
Li, Zun Xian (*with* Li, Fu An) A criterion for the invertibility of polynomial mappings. (Chinese) (Not in MR)
Logachev, D. Yu. Birational isomorphism of a three-dimensional cubic and of the section of $G(2,6)$ by five hyperplanes, and similar problems. (Russian) **89c:14016**
Manaresi, Mirella *see* **Cumino, Caterina; et al., 89k:14014**
Maşek, Vladimir Projective contractions along weighted projective spaces. (Italian summary) **89i:14006**
Miyaoka, Yoichi Deformations of a morphism along a foliation and applications. **89e:14011**
Pukhlikov, A. V. Birational automorphisms of a three-dimensional quartic with a simple singularity. **89k:14016**
Rusek, Kamil *see* **Kurdyka, Krzysztof, 89d:14016**
Syarova, A. B. Application of a set of cubic involutory Cremona transformations. (Bulgarian. English and Russian summaries) **89f:14008**

Items with secondary classifications in 14E05

Coombes, Kevin R. Every rational surface is separably split. **89d:14055**
Ewald, Günter Blow-ups of smooth toric 3-varieties. **89b:14065**
Formanek, Edward Two notes on the Jacobian conjecture. **89b:13007**
Hanamura, Masaki Structure of birational automorphism groups. I. Nonuniruled varieties. **89f:14051**
Kawamata, Yujiro (*with* Matsuda, Katsumi; Matsuki, Kenji) Introduction to the minimal model problem. **89e:14015**
Langov, Anani (*with* Stanilova, Lidiya) A group of Cremona cubic transformations in a three-dimensional projective space. (Bulgarian. English and Russian summaries) **89i:14007**
Matsuda, Katsumi *see* **Kawamata, Yujiro; et al., 89e:14015**
Matsuki, Kenji *see* **Kawamata, Yujiro; et al., 89e:14015**
Mori, Shigefumi Classification of higher-dimensional varieties. **89a:14040**
Orbán, B. A correlative birational transformation of order 3. **89m:51041**
Reid, Miles Young person's guide to canonical singularities. **89b:14016**
Stanilova, Lidiya *see* **Langov, Anani, 89i:14007**
Wright, David Lee Formal inverse expansion and the Jacobian conjecture. **89b:13008**
Zharov, S. V. Constructive birational mapping of the points of the space $\mathbf{P}_4$ onto linear series g_3^1 of a conic. (Russian) **89e:14046**

14E07 Structure of Cremona group and generalizations

Langov, Anani (*with* Stanilova, Lidiya) A group of Cremona cubic transformations in a three-dimensional projective space. (Bulgarian. English and Russian summaries) **89i:14007**
McKay, James H. (*with* Wang, Stuart Sui Sheng) An elementary proof of the automorphism theorem for the polynomial ring in two variables. **89k:14017**
Stanilova, Lidiya *see* **Langov, Anani, 89i:14007**
Wang, Stuart Sui Sheng *see* **McKay, James H., 89k:14017**

Items with secondary classifications in 14E07

Grigorov, Kh. (*with* Stoev, G. S.) A class of Cremona transformations in $\mathbf{P}_4$ of type $T_{4\text{-}4\text{-}4}$. (Bulgarian. English and Russian summaries) **89f:51094**
Hirschowitz, André Symétries des surfaces rationnelles génériques. [Symmetries of generic rational surfaces] **89k:14064**
Klyachko, A. A. K-theory of Demazure models. (Russian) (*see* **89a:11006**)
Kurdyka, Krzysztof (*with* Rusek, Kamil) Polynomial-rational bijections of $\mathbf{R}^n$. **89d:14016**
McKay, James H. (*with* Wang, Stuart Sui Sheng) On the inversion formula for two polynomials in two variables. **89m:14008**
— *see also* **Moh, T. T.; et al., 89m:14009**
Moh, T. T. (*with* McKay, James H.; Wang, Stuart Sui Sheng) On face polynomials. **89m:14009**

Morrison, David R. (*with* Saito, Masa-Hiko) Cremona transformations and degrees of period maps for $K3$ surfaces with ordinary double points. **89k:14067**
Nowicki, Andrzej Władysław On the Jacobian equation $J(f,g)=0$ for polynomials in $k[x,y]$. **89d:12003**
Rusek, Kamil *see* **Kurdyka, Krzysztof, 89d:14016**
Saito, Masa-Hiko *see* **Morrison, David R., 89k:14067**
Stoev, G. S. *see* **Grigorov, Kh., 89f:51094**
Umemura, Hiroshi Minimal rational threefolds. II. **89f:14040**
Voskresenskiĭ, V. E. Invariant Demazure models. (Russian) (*see* **89a:11006**)
Wang, Stuart Sui Sheng *see* **McKay, James H., 89m:14008** *and* **Moh, T. T.; et al., 89m:14009**

14E10 General correspondences

Lewis, James D. The cylinder correspondence for hypersurfaces of degree n in P^n. **89g:14005**

Items with secondary classifications in 14E10

Paranjape, Kapil Abelian varieties associated to certain $K3$ surfaces. **89k:14068**

14E15 Global theory of singularities, resolution [see also 14B05, 32C45]

Abhyankar, Shreeram S. Good points of a hypersurface. **89e:14012**
Cano, F. Local and global results on the desingularization of three-dimensional vector fields. **89e:14013**
Choudary, A. D. R. (*with* Dimca, A.) Hypersurface singularities, codimension two complete intersections and tangency sets. **89d:14017**
Dimca, A. *see* **Choudary, A. D. R., 89d:14017**
Gonzalez-Sprinberg, Gerardo Désingularisation des surfaces par des modifications de Nash normalisées. [Desingularization of surfaces by normalized Nash modifications] **89a:14015**
Kempf, George R. The singularities of some invariant hypersurfaces. **89a:14016**
Moh, T. T. On a stability theorem for local uniformization in characteristic p. **89d:14018**
Morales, Marcelo A note about plurigenera. **89h:14009**
Werner, Jürgen ★ Kleine Auflösungen spezieller dreidimensionaler Varietäten. (German) [Small resolutions of special three-dimensional varieties] **89k:14018**

Items with secondary classifications in 14E15

Artin, M. Lipman's proof of resolution of singularities for surfaces. (*see* **89b:14029**)
Cano, F. Techniques pour la désingularisation des champs de vecteurs. [Techniques for the desingularization of vector fields] **89a:14006**
— (*with* Piedra Sánchez, Ramón) Characteristic polygon of surface singularities. **89c:14051**
Conte, A. (*with* Murre, J. P.) On the definition and on the nature of the singularities of Fano threefolds. **89b:14057**
Finat, J. A combinatorial presentation of the variety of complete quadrics. **89c:14076**
Huneke, Craig (*with* Sally, Judith D.) Birational extensions in dimension two and integrally closed ideals. **89e:13025**
Ishii, Shihoko Isolated Q-Gorenstein singularities of dimension three. **89d:32016**
Libgober, A. On π_2 of the complements to hypersurfaces which are generic projections. **89a:14024**
Murre, J. P. *see* **Conte, A., 89b:14057**
Piedra Sánchez, Ramón *see* **Cano, F., 89c:14051**
Sally, Judith D. *see* **Huneke, Craig, 89e:13025**

14E20 Coverings, fundamental group

Asada, Mamoru On the action of the Frobenius automorphism on the pro-l fundamental group. **89k:14019**
Fujita, Takao Triple covers by smooth manifolds. **89d:14019**
Kato, Mitsuyoshi On biholomorphisms between some Kummer branched covering spaces of complex projective plane. **89h:14010**
Mehta, V. B. (*with* Srinivas, V.) Varieties in positive characteristic with trivial tangent bundle. **89e:14014**
Namba, Makoto ★ Branched coverings and algebraic functions. **89d:14020**
(Nori, M. V.) *see* **Mehta, V. B., 89e:14014**
Srinivas, V. *see* **Mehta, V. B., 89e:14014**

Items with secondary classifications in 14E20

Bertolini, Marina Multiple coverings of rational scrolls. (Italian. English summary) **89c:14056**
Drużkowski, Ludwik M. Formulae for the inverse of a polynomial automorphism of C^2. (Polish summary) **89m:13002**
Esnault, Hélène (*with* Viehweg, Eckart) Revêtements cycliques. II (autour du théorème d'annulation de J. Kollár). [Cyclic coverings. II (concerning J. Kollár's vanishing theorem)] **89h:14014**
Formanek, Edward Two notes on the Jacobian conjecture. **89b:13007**
Fulton, William On the topology of algebraic varieties. **89c:14027**
Katsurada, Hidenori On étale $\mathrm{SL}_2(F_p)$-coverings of algebraic curves of genus 2. **89g:14018**
Kishimoto, Kazuo^1 (*with* Nowicki, Andrzej Władysław) A note on the Jacobian conjecture in two variables. **89d:13004**
Knöller, F. W. Die Fundamentalgruppen der Siegelschen Modulvarietäten. (English summary) [The fundamental groups of Siegel modular varieties] **89b:32043**
Koseki, Harutaka On the common kernel of certain symmetric tensor representations. **89j:11060**
Libgober, A. Fundamental groups of the complements to plane singular curves. **89e:14028**
Meisters, Gary H. (*with* Olech, Czesław) A poly-flow formulation of the Jacobian conjecture. (Russian summary) **89j:13005**
Miyanishi, Masayoshi (*with* Zhang, De-Qi) Gorenstein log del Pezzo surfaces of rank one. **89i:14033**
Moishezon, B. (*with* Teicher, M.) Galois coverings in the theory of algebraic surfaces. **89h:14031**
Nakai, Yoshikazu *see* **Nowicki, Andrzej Władysław, 89h:13007**
Nowicki, Andrzej Władysław On the Jacobian conjecture in two variables. **89f:13004**
— (*with* Nakai, Yoshikazu) On Appelgate-Onishi's lemmas. **89h:13007**
— *see also* **Kishimoto, Kazuo^1, 89d:13004**
Olech, Czesław *see* **Meisters, Gary H., 89j:13005**
Önsiper, Hurşit On generalized Albanese varieties for surfaces. **89i:14040**
Sakurai, Kouichi (*with* Suzuki, Masakazu) Equivalence problem and automorphisms of some abelian branched coverings of the Riemann sphere. **89j:30063**
Suzuki, Masakazu *see* **Sakurai, Kouichi, 89j:30063**
Teicher, M. *see* **Moishezon, B., 89h:14031**
Ullrich, P. Rigid analytic covering maps. **89c:32074**
Viehweg, Eckart *see* **Esnault, Hélène, 89h:14014**
Wright, David Lee Formal inverse expansion and the Jacobian conjecture. **89b:13008**
Wu, Xiao Long A case of the Jacobian conjecture. **89m:13003**
Zhang, De-Qi *see* **Miyanishi, Masayoshi, 89i:14033**

14E22 Ramification problems [see also 11S15]

Abellanas, M. Les "pinch-points" d'une projection générique d'une variété algébrique. [The "pinch-points" of a generic projection of an algebraic variety] **89f:14009**
Alonso Tarrio, Leovigildo M. A cardinality theorem for fibers. (Spanish. English summary) **89i:14008**
Furukawa, Yoshihiro On the ramified congruence relations of algebraic curves. **89d:14021**
Miyanishi, Masayoshi Cyclic étale endomorphisms of rational surfaces. **89j:14007**

Items with secondary classifications in 14E22

Ådlandsvik, Bjørn Joins and higher secant varieties. **89j:14030**
Cumino, Caterina (*with* Greco, Silvio; Manaresi, Mirella) Hyperplane sections of weakly normal varieties in positive characteristic. **89k:14014**
Fujita, Takao Triple covers by smooth manifolds. **89d:14019**
Greco, Silvio *see* **Cumino, Caterina; et al., 89k:14014**
Ihara, Yasutaka Some problems on three-point ramifications and associated large Galois representations. **89f:11078**
Manaresi, Mirella *see* **Cumino, Caterina; et al., 89k:14014**
Namba, Makoto ★ Branched coverings and algebraic functions. **89d:14020**
Teodosiu, Gabi A class of analytic coverings ramified over $u^3=v^2$. **89m:32016**

14E25 Imbeddings

Holme, Audun (*with* Roberts, Joel) On the embeddings of projective varieties. **89i:14009**
McKay, James H. (*with* Wang, Stuart Sui Sheng) On the inversion formula for two polynomials in two variables. **89m:14008**
— *see also* **Moh, T. T.; et al., 89m:14009**
Moh, T. T. (*with* McKay, James H.; Wang, Stuart Sui Sheng) On face polynomials. **89m:14009**
Roberts, Joel *see* **Holme, Audun, 89i:14009**
Wang, Stuart Sui Sheng *see* **McKay, James H., 89m:14008** *and* **Moh, T. T.; et al., 89m:14009**

Items with secondary classifications in 14E25

Ballico, Edoardo (*with* Beltrametti, Mauro) On 2-spannedness for the adjunction mapping. **89i:14003**
Beltrametti, Mauro *see* **Ballico, Edoardo, 89i:14003**
Davis, Edward D. (*with* Geramita, Anthony V.) Bese's very ampleness theorem and punctured complete intersections. **89c:14008**
Ewald, Günter An embedding theorem for smooth projective toric varieties. **89j:14027**
Geramita, Anthony V. *see* **Davis, Edward D., 89c:14008**
Lanteri, Antonio Complex projective surfaces with hyperelliptic hyperplane sections. **89m:14020**
Lazarsfeld, Robert A sharp Castelnuovo bound for smooth surfaces. **89d:14007**
Livorni, Elvira Laura Some results about a smooth hyperplane section of a 3-fold of nonnegative Kodaira dimension. **89a:14046**
Serrano, Fernando The adjunction mappings and hyperelliptic divisors on a surface. **89c:14054**

14E30 Minimal models

Étesse, Jean-Yves Complexe de de Rham-Witt à coefficients dans un cristal. [The de Rham-Witt complex with coefficients in a crystal] **89d:14022**
Kawamata, Yujiro (*with* Matsuda, Katsumi; Matsuki, Kenji) Introduction to the minimal model problem. **89e:14015**
— Crepant blowing-up of 3-dimensional canonical singularities and its application to degenerations of surfaces. **89d:14023**
— A classification theory of higher-dimensional algebraic varieties—towards a theory of minimal models. (Japanese) **89k:14020**
Matsuda, Katsumi *see* **Kawamata, Yujiro; et al., 89e:14015**
Matsuki, Kenji *see* **Kawamata, Yujiro; et al., 89e:14015**
Miyanishi, Masayoshi Projective degenerations of surfaces according to S. Tsunoda. **89k:14021**
Miyaoka, Yoichi The Chern classes and Kodaira dimension of a minimal variety. **89k:14022**
Reid, Miles Young person's guide to canonical singularities. **89b:14016**
Shokurov, V. V. Numerical geometry of algebraic varieties. **89g:14006**
Tsuji, Hajime An inequality of Chern numbers of Bogomolov type for minimal varieties. **89k:14023**

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Ancona, Vincenzo Vanishing and nonvanishing theorems for numerically effective line bundles on complex spaces. **89h:32058**

Cutkosky, Steven D. Weil divisors and symbolic algebras. **89e:14003**
Kawamata, Yujiro The Zariski decomposition of log-canonical divisors. **89b:14052**
Miyanishi, Masayoshi (*with* Tsunoda, S.) Open algebraic surfaces with Kodaira dimension $-\infty$. **89d:14051**
Miyaoka, Yoichi On the Kodaira dimension of minimal threefolds. **89g:14028**
Mori, Shigefumi Classification of higher-dimensional varieties. **89a:14040**
Nakayama, Noboru The lower semicontinuity of the plurigenera of complex varieties. **89h:14028**
Pukhlikov, A. V. Birational automorphisms of a three-dimensional quartic with a simple singularity. **89k:14016**
Sakai, Fumio Classification of normal surfaces. **89d:14053**
Shokurov, V. V. Extremal contractions of three-dimensional algebraic varieties. (Russian) **89e:14041**
Tsunoda, S. *see* **Miyanishi, Masayoshi, 89d:14051**
Umemura, Hiroshi Minimal rational threefolds. II. **89f:14040**

14E35 Results in dimension ≤ 3

Items with secondary classifications in 14E35

Cano, F. Local and global results on the desingularization of three-dimensional vector fields. **89e:14013**
Cutkosky, Steven D. Elementary contractions of Gorenstein threefolds. **89k:14070**
Kawamata, Yujiro Crepant blowing-up of 3-dimensional canonical singularities and its application to degenerations of surfaces. **89d:14023**
McKay, James H. (*with* Wang, Stuart Sui Sheng) An elementary proof of the automorphism theorem for the polynomial ring in two variables. **89k:14017**
— (*with* Wang, Stuart Sui Sheng) On the inversion formula for two polynomials in two variables. **89m:14008**
— *see also* **Moh, T. T.; et al., 89m:14009**
Miyanishi, Masayoshi Cyclic étale endomorphisms of rational surfaces. **89j:14007**
Moh, T. T. (*with* McKay, James H.; Wang, Stuart Sui Sheng) On face polynomials. **89m:14009**
Mori, Shigefumi Flip theorem and the existence of minimal models for 3-folds. **89a:14048**
Wang, Stuart Sui Sheng *see* **McKay, James H., 89k:14017; 89m:14008** *and* **Moh, T. T.; et al., 89m:14009**

14E40 Local structure of maps: étale, flat, etc. [see also 13–XX, 14B25]

Items with secondary classifications in 14E40

Ekedahl, Torsten Foliations and inseparable morphisms. **89d:14049**
Neeman, Amnon Steins, affines and Hilbert's fourteenth problem. **89d:14001**

14E99 None of the above, but in this section

Items with secondary classifications in 14E99

Pecker, Daniel Sur l'équation d'un ensemble algébrique de $\mathbf{R}^{n+1}$ dont la projection dans $\mathbf{R}^n$ est un ensemble semi-algébrique fermé donné. (English summary) [On the equation of an algebraic set of $\mathbf{R}^{n+1}$ projecting upon a given closed semi-algebraic subset of $\mathbf{R}^n$] **89d:14035**

14Fxx Cohomology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 18F20, 46M20]

Baer, Dagmar Tilting sheaves in representation theory of algebras. **89c:14017**
Ballico, Edoardo On globally generated vector bundles on surfaces with $c_2 = 1$. **89j:14008**
Böhmer, W. (*with* Trautmann, G.) Special instanton bundles and Poncelet curves. **89d:14024**
Call, Frederick W. Quasicoherent modules on quasi-affine schemes. **89d:14025**
Decker, W. (*with* Schreyer, F.-O.) Pullbacks of the Horrocks-Mumford bundle. **89b:14017**
Drezet, J.-M. Fibrés exceptionnels et variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [Exceptional bundles and moduli varieties of semistable sheaves in $\mathbf{P}_2(\mathbf{C})$] **89e:14016**
— Cohomologie des variétés de modules de hauteur nulle. [Cohomology of moduli varieties of height zero] **89j:14009**
Ein, Lawrence Generalized null correlation bundles. **89k:14024**
Eisenbud, David (*with* Harris, Joseph Daniel) Vector spaces of matrices of low rank. **89j:14010**
Gorodentsev, A. L. Surgeries of exceptional bundles on $\mathbf{P}^n$. **89c:14018**
Haastert, Burkhard On direct and inverse images of $\mathscr{D}$-modules in prime characteristic. **89j:14011**
Harris, Joseph Daniel *see* **Eisenbud, David, 89j:14010**
Hartshorne, Robin Stable reflexive sheaves. III. **89h:14011**
Hirschowitz, André Problèmes de Brill-Noether en rang supérieur. (English summary) [Brill-Noether problems for higher-rank vector bundles] **89i:14010**
— Existence de faisceaux réflexifs de rang deux sur $\mathbf{P}^3$ à bonne cohomologie. [Existence of reflexive sheaves of rank two in $\mathbf{P}^3$ with good cohomology] **89c:14019**
Horrocks, G. Vector bundles on the punctured spectrum of a local ring. II. **89b:14018**
Hulek, K. Geometry of the Horrocks-Mumford bundle. **89a:14017**
Idà, Monica (*with* Manaresi, Mirella) Rank two vector bundles on $\mathbf{P}^n$ uniform with respect to some rational curves. **89i:14011**
Jaczewski, Krzysztof (*with* Szurek, Michał; Wiśniewski, Jarosław A.) Geometry of the Tango bundle. **89a:14018**
Kaneyama, Tamafumi Torus-equivariant vector bundles on projective spaces. **89i:14012**
Kucharz, W. Algebraic cycles and vector bundles on real affine threefolds. **89c:14020**
Le Bruyn, L. Some remarks on rational matrix invariants. **89k:14025**
Le Potier, J. Variétés de modules de faisceaux semi-stables de rang élevé sur $\mathbf{P}_2$. [Moduli varieties of semistable sheaves of high rank on $\mathbf{P}_2$] **89b:14019**
Lomadze, V. G. Linear systems and coherent sheaves. (Russian. English and Georgian summaries) **89a:14019**
Manaresi, Mirella *see* **Idà, Monica, 89i:14011**
Manolache, Nicolae Syzygies of abelian surfaces embedded in $\mathbf{P}^4(\mathbf{C})$. **89c:14021**
Martinengo, Chiara On the cohomology of curves and bundles of rank 2 in $\mathbf{P}^3$. (Italian. English summary) **89b:14020**
Maruyama, Masaki The rationality of the moduli spaces of vector bundles of rank 2 on $\mathbf{P}^2$. **89f:14010**
Miró Roig, Rosa M. The moduli space $M^S_{\mathbf{P}^3}(-1, c_2, c_2^2 - 2c_2 + 4)$. **89b:14021**
— Unstability order for an unstable surface of a rank 2 reflexive sheaf. **89b:14022**
— Stable rank 3 reflexive sheaves on $\mathbf{P}^3$ with extremal c_3. **89a:14020**
— Nonstable rank 2 reflexive sheaves on $\mathbf{P}^3$ with extremal c_3 and applications. **89b:14023**
Mukai, Shigeru Fourier functor and its application to the moduli of bundles on an abelian variety. **89k:14026**
Murthy, M. Pavaman Zero-cycles, splitting of projective modules and number of generators of a module. **89f:14011**
Naruki, Isao On the moduli space $M(0,4)$ of vector bundles. **89a:14021**
— *see also* **Maruyama, Masaki, 89f:14010**
Ono, Tomoaki A note on simple vector bundles of rank 2 with $\Delta = 3$ on a nonsingular cubic surface in $\mathbf{P}^3$. **89e:14017**
Ottaviani, Giorgio Maria Spinor bundles on quadrics. **89h:14012**
Rao, A. Prabhakar Splitting monads of vector bundles. **89k:14027**
Roggero, Margherita Bertini theorems, reflexive sheaves and subcanonical curves. (Italian) **89k:14028**
— On the rank 2 reflexive sheaves and the subcanonical curves in $\mathbf{P}^3$. **89g:14007**
Rudakov, A. N. Markov numbers and exceptional bundles on $\mathbf{P}^2$. **89f:14012**
Schneider, Michael Hellmut Vector bundles and submanifolds of projective space: nine open problems. **89j:14012**
— (*with* Tancredi, Alessandro) Almost-positive vector bundles on projective surfaces. **89e:14018**
Schreyer, F.-O. *see* **Decker, W., 89b:14017**
Sumihiro, Hideyasu A construction method of algebraic vector bundles. **89k:14029**
Szurek, Michał *see* **Jaczewski, Krzysztof; et al., 89a:14018**
Tancredi, Alessandro *see* **Schneider, Michael Hellmut, 89e:14018**
Tango, Hiroshi On a 5-dimensional nonsingular rational subvariety of Grassmann variety $G_r(5,1)$. I. (Japanese. English summary) **89k:14030**
Trautmann, G. *see* **Böhmer, W., 89d:14024**
Wiśniewski, Jarosław A. *see* **Jaczewski, Krzysztof; et al., 89a:14018**

Items with secondary classifications in 14F05

Alexander, James Ernest Singularités imposables en position générale à une hypersurface projective. [Singularities that may be imposed in general position on a projective hypersurface] **89k:14085**
Arapura, Donu (*with* Jaffe, David B.) On Kodaira vanishing for singular varieties. **89h:14013**
Artamkin, I. V. On the deformation of sheaves. **89g:14004**
Ascenzi, M.-G. The restricted tangent bundle of a rational curve in $\mathbf{P}^2$. **89i:14023**
Awami, Mohamed A. (*with* Verschoren, A.) Filtered sheaves and their localizations. **89f:54025**
Barge, Jean (*with* Ojanguren, M.) Fibrés algébriques sur une surface réelle. [Algebraic bundles on a real surface] **89d:14032**
Bartocci, Claudio (*with* Bruzzo, Ugo) Cohomology of the structure sheaf of real and complex supermanifolds. **89k:58023**
Beilinson, A. A. (*with* Manin, Yu. I.; Shekhtman, V. V.) Sheaves of the Virasoro and Neveu-Schwarz algebras. **89j:58039**
Bhosle, Usha N. Moduli of parabolic G-bundles. **89i:32057**
Bismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. I. Bott-Chern forms and analytic torsion. **89g:58192a**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. II. Direct images and Bott-Chern forms. **89g:58192b**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. III. Quillen metrics on holomorphic determinants. **89g:58192c**
Bolondi, Giorgio On the classification of curves linked to two skew lines. **89e:14032**
— Liaison and maximal rank. (Italian summary) **89b:14047**
— Smoothing curves by reflexive sheaves. **89e:14033**
Bruzzo, Ugo *see* **Bartocci, Claudio, 89k:58023**
Chang, Mei Chu Buchsbaum subvarieties of codimension 2 in $\mathbf{P}^n$. **89d:14062**
Chiantini, Luca (*with* Valabrega, Paolo) On some properties of subcanonical curves and unstable bundles. **89a:14038**
Ciliberto, Ciro On rationally determined line bundles on a family of projective curves with general moduli. **89a:14030**
(Donaldson, Simon) *see* **Margerin, Christophe, 89e:58034**
Doty, Stephen R. (*with* Sullivan, John B.) On the structure of the higher cohomology modules of line bundles on G/B. **89d:20033**
Drezet, J.-M. Groupe de Picard des variétés de modules de faisceaux semi-stables sur $\mathbf{P}_2(\mathbf{C})$. [The Picard group of moduli varieties of semistable sheaves over $\mathbf{P}_2(\mathbf{C})$] **89m:14007**
Drinfel'd, V. G. Moduli varieties of F-sheaves. (Russian) **89b:11092**
Evans, E. Graham, Jr. (*with* Griffith, Phillip) Syzygies: the codimension of zeros of a nonzero section. **89e:13014**
Fahlaoui, Rachid Stabilité du fibré tangent des surfaces de del Pezzo. [Stability of the tangent bundle of del Pezzo surfaces] **89k:14063**
Forster, Otto (*with* Wolffhardt, K.) A theorem on zero schemes of sections in two-bundles over affine schemes with applications to set-theoretic intersections. **89b:14066**
Friedman, Robert David (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. I. **89d:57046**

— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. II. **89d:57047**
Geigle, Werner (*with* Lenzing, Helmut) A class of weighted projective curves arising in representation theory of finite-dimensional algebras. **89b:14049**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**
Griffith, Phillip *see* **Evans, E. Graham, Jr., 89e:13014**
Hartshorne, Robin (*with* Hirschowitz, André) Nouvelles courbes de bon genre dans l'espace projectif. [New curves with good genus in projective space] **89d:14043**
Hirschowitz, André *see* **Hartshorne, Robin, 89d:14043**
Hitchin, Nigel The self-duality equations on a Riemann surface. **89a:32021**
Hoàng Lê Minh Singularities of the complex-analytic solutions of the self-dual Yang-Mills equations. **89m:32052**
Hulek, K. (*with* Lange, Herbert) The Hilbert modular surface for the ideal $(\sqrt{5})$ and the Horrocks-Mumford bundle. **89d:14057**
Jaffe, David B. *see* **Arapura, Donu, 89h:14013**
Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**
Kollár, János Vanishing theorems for cohomology groups. **89j:32039**
Kucharz, W. Complex vector bundles on real algebraic varieties of small dimension. **89k:14042**
Lange, Herbert Jacobian surfaces in $\mathbf{P}_4$. **89a:14061**
— *see also* **Hulek, K., 89d:14057**
Lazarsfeld, Robert A sharp Castelnuovo bound for smooth surfaces. **89d:14007**
Lenzing, Helmut *see* **Geigle, Werner, 89b:14049**
Manin, Yu. I. *see* **Beĭlinson, A. A.; et al., 89j:58039**
Margerin, Christophe Fibrés stables et métriques d'Hermite-Einstein (d'après S. K. Donaldson-K. K. Uhlenbeck- S. T. Yau). [Stable bundles and Hermite-Einstein metrics after S. K. Donaldson, K. K. Uhlenbeck, S. T. Yau] **89e:58034**
Miyaoka, Yoichi The Chern classes and Kodaira dimension of a minimal variety. **89k:14022**
Morgan, John W. *see* **Friedman, Robert David, 89d:57046** *and* **89d:57047**
Ojanguren, M. *see* **Barge, Jean, 89d:14032**
Ono, Tomoaki Space curves of genus 7 and degree 8 on a nonsingular cubic surface with stable normal bundle. **89d:14046**
Perrin, Daniel Courbes passant par m points généraux de $\mathbf{P}^3$. (English summary) [Curves passing through m general points of $\mathbf{P}^3$] **89j:14020**
Reider, Igor Vector bundles of rank 2 and linear systems on algebraic surfaces. **89e:14038**
Reversat, M. Homogeneous vector bundles on some abelian varieties. **89a:14059**
Roggero, Margherita Some remarks about the speciality theorem of Gruson and Peskine. (Italian summary) **89f:14031**
Shekhtman, V. V. *see* **Beĭlinson, A. A.; et al., 89j:58039**
Soulé, C. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**
Sullivan, John B. *see* **Doty, Stephen R., 89d:20033**
Swan, Richard G. A simple proof of Gabber's theorem on projective modules over a localized local ring. **89f:13016**
Tan, Xiao Jiang A vanishing theorem on Riemann surfaces. (Chinese) **89d:14026**
Trautmann, G. Poncelet curves and associated theta characteristics. **89c:14047**
Tu, Loring W. Degeneracy loci. **89c:14075**
(Uhlenbeck, Karen Keskulla) *see* **Margerin, Christophe, 89e:58034**
Valabrega, Paolo *see* **Chiantini, Luca, 89a:14038**
Verschoren, A. *see* **Awami, Mohamed A., 89f:54025**
Viehweg, Eckart Vanishing theorems and positivity in algebraic fibre spaces. **89i:14030**
Wang, Jian Pan The inverse image of an induced sheaf on G/P. (Chinese. English summary) **89k:20058**
Wolffhardt, K. *see* **Forster, Otto, 89b:14066**
(Yau, S.-T.) *see* **Margerin, Christophe, 89e:58034**

14F07 Weierstrass points in one and several variables; gap sheaves

Items with secondary classifications in 14F07

Alzati, A. (*with* Ottaviani, Giorgio Maria) Small codimension subvarieties of $\mathbf{P}^n$. (Italian summary) **89c:14074**
Horiuchi, Ryutaro (*with* Tanimoto, Tomihiko) Fixed points of automorphisms of compact Riemann surfaces and higher-order Weierstrass points. **89i:30054**
— *see also* **Kato, Takao, 89d:14045**
Kato, Takao (*with* Horiuchi, Ryutaro) Weierstrass gap sequences at the ramification points of trigonal Riemann surfaces. **89d:14045**
Lax, R. F. (*with* Widland, Carl) Weierstrass points on rational cuspidal curves. (Italian summary) **89b:14050**
Ottaviani, Giorgio Maria *see* **Alzati, A., 89c:14074**
Tanimoto, Tomihiko *see* **Horiuchi, Ryutaro, 89i:30054**
Tomaru, Tadashi On a class of normal surface singularities determined by Weierstrass points on algebraic curves. **89k:14060**
Widland, Carl *see* **Lax, R. F., 89b:14050**

14F10 Differentials and other special sheaves

Brückmann, Peter Some birational invariants of algebraic varieties. **89f:14013**
Kreuzer, Martin (*with* Kunz, E.) Traces in strict Frobenius algebras and strict complete intersections. **89c:14022**
Kunz, E. *see* **Kreuzer, Martin, 89c:14022**

Items with secondary classifications in 14F10

Esnault, Hélène (*with* Viehweg, Eckart) A remark on a nonvanishing theorem of P. Deligne and G. D. Mostow. **89c:32075**
Kersken, M. Ein Regularitätskriterium für analytische Algebren. [A regularity criterion for analytic algebras] **89k:32014**
Miyaoka, Yoichi Deformations of a morphism along a foliation and applications. **89e:14011**
Saito, Takeshi Vanishing cycles and differentials of curves over a discrete valuation ring. **89k:14009**
Smith, S. P. Differential operators on the affine and projective lines in characteristic $p > 0$. **89d:16047**
Viehweg, Eckart *see* **Esnault, Hélène, 89c:32075**

14F12 Riemann-Roch problems [See mainly 14C40, also 32L10, 57R20]

Items with secondary classifications in 14F12

Brodmann, M. A bound for the first cohomology of a projective surface. **89e:14019**
Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
Fletcher, A. R. Contributions to Riemann-Roch on projective 3-folds with only canonical singularities and applications. **89h:14032**
Gillet, H. (*with* Messing, William) Cycle classes and Riemann-Roch for crystalline cohomology. **89c:14025**
Jannsen, Uwe Deligne homology, Hodge-$\mathscr{D}$-conjecture, and motives. **89h:14016**
Levi, Roni N. The Riemann-Roch theorem for complex spaces. **89d:32065**
Marchionna, Ermanno On normal Cohen-Macaulay varieties. (Italian. English summary) **89e:14005**
Messing, William *see* **Gillet, H., 89c:14025**
Satake, I. On the y-genera of arithmetic varieties of Q-rank one. (Chinese summary) **89e:32048**

14F15 Serre cohomology, K-theory [see also 13D15, 18F25, 19E20]

Arapura, Donu (*with* Jaffe, David B.) On Kodaira vanishing for singular varieties. **89h:14013**
Brodmann, M. A bound for the first cohomology of a projective surface. **89e:14019**
Esnault, Hélène (*with* Viehweg, Eckart) Revêtements cycliques. II (autour du théorème d'annulation de J. Kollár). [Cyclic coverings. II (concerning J. Kollár's vanishing theorem)] **89h:14014**
Jaffe, David B. *see* **Arapura, Donu, 89h:14013**
Kapranov, M. M. On the derived category and K-functor of coherent sheaves on intersections of quadrics. **89f:14014**
Soulé, C. p-adic K-theory of elliptic curves. **89c:14023**
Tan, Xiao Jiang A vanishing theorem on Riemann surfaces. (Chinese) **89d:14026**
Thomason, R. W. Equivariant algebraic vs. topological K-homology Atiyah-Segal-style. **89f:14015**
Viehweg, Eckart *see* **Esnault, Hélène, 89h:14014**

Items with secondary classifications in 14F15

Hyodo, Osamu A note on p-adic étale cohomology in the semistable reduction case. **89h:14017**
Kato, Kazuya On p-adic vanishing cycles (application of ideas of Fontaine-Messing). **89i:14014**
Pascual Gainza, P. K-theory of categories of complexes, and applications. (Spanish. English summary) **89c:18013**
Schneider, Peter Introduction to the Beĭlinson conjectures. **89g:11053**
Swan, Richard G. Vector bundles, projective modules and the K-theory of spheres. **89f:18009**

14F20 Grothendieck cohomology and topology [see also 18F10]

Bloch, Spencer Euler characteristics and Swan conductors. **89i:14013**
Deninger, Ch. A proper base change theorem for nontorsion sheaves in étale cohomology. **89f:14016**
(Dieudonné, Jean) *see* **Freitag, Eberhard, 89f:14017**
Freitag, Eberhard (*with* Kiehl, Reinhardt) ★ Étale cohomology and the Weil conjecture. **89f:14017**
Jannsen, Uwe Continuous étale cohomology. **89a:14022**
Kato, Kazuya (*with* Saito, Shuji; Saito, Takeshi) Artin characters for algebraic surfaces. **89d:14027**
Kiehl, Reinhardt *see* **Freitag, Eberhard, 89f:14017**
Landiya, A. N. The Brauer group of some affine cones. (Russian. English and Georgian summaries) **89b:14024**
Saito, Shuji *see* **Kato, Kazuya; et al., 89d:14027**
Saito, Takeshi *see* **Kato, Kazuya; et al., 89d:14027**
Soulé, C. Erratum: "The rank of étale cohomology of varieties over p-adic or number fields" [Compositio Math. 53 (1984), no. 1, 113–131; MR 86b:14013]. **89h:14015**
(Waterhouse, Betty S.) *see* **Freitag, Eberhard, 89f:14017**
(Waterhouse, William C.) *see* **Freitag, Eberhard, 89f:14017**

Items with secondary classifications in 14F20

Bloch, Spencer de Rham cohomology and conductors of curves. **89h:11028**
Dovermann, Karl Heinz Cyclic group actions on complex projective spaces. **89j:57035**
Ford, T. J. On the Brauer group of a Laurent polynomial ring. **89h:13006**
Kuribayashi, Izumi (*with* Momose, F.) On the action of automorphisms of a curve on the first l-adic cohomology. **89g:11050**
Momose, F. *see* **Kuribayashi, Izumi, 89g:11050**

14F25 Classical real and complex cohomology

Beĭlinson, A. A. Correction to: "Notes on absolute Hodge cohomology" [*Applications of algebraic K-theory to algebraic geometry and number theory, Part I, II* (Boulder, Colo.,

1983), 35–68, Amer. Math. Soc., Providence, R.I., 1986; MR 87m:14019]. **89a:14023**
Jannsen, Uwe Deligne homology, Hodge-$\mathcal{D}$-conjecture, and motives. **89h:14016**
Némethi, András Lefschetz theory for complex affine varieties. **89k:14031**

Items with secondary classifications in 14F25

Broughton, S. A. Milnor numbers and the topology of polynomial hypersurfaces. **89h:32025**
Tu, Loring W. Degeneracy loci. **89c:14075**
Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

14F30 *p*-adic cohomology, crystalline cohomology

Crew, Richard *F*-isocrystals and *p*-adic representations. **89c:14024**
Faltings, Gerd *p*-adic Hodge theory. **89g:14008**
Fontaine, Jean-Marc (*with* Messing, William) *p*-adic periods and *p*-adic étale cohomology. **89g:14009**
Gerritzen, L. Periods and Gauss-Manin connection for the Mumford curve $y_2^{r_2}y_1^{r_1} - y_2^{r_2} - y_1^{r_1} + \lambda = 0$. **89b:14025**
Gillet, H. (*with* Messing, William) Cycle classes and Riemann-Roch for crystalline cohomology. **89c:14025**
Hyodo, Osamu A note on *p*-adic étale cohomology in the semistable reduction case. **89h:14017**
Kato, Kazuya On *p*-adic vanishing cycles (application of ideals of Fontaine-Messing). **89i:14014**
— Duality theories for *p*-primary etale cohomology. II. **89k:14032**
Kurihara, Masato A note on *p*-adic étale cohomology. **89b:14026**
Li, Ke Zheng Classification of supersingular abelian varieties. **89k:14033**
Messing, William *see* **Gillet, H., 89c:14025** *and* **Fontaine, Jean-Marc, 89g:14009**
Wodzicki, Mariusz Cyclic homology of differential operators in characteristic $p > 0$. (French summary) **89i:14015**

Items with secondary classifications in 14F30

Crew, Richard *L*-functions of *p*-adic characters and geometric Iwasawa theory. **89g:11049**
Gros, Michel (*with* Suwa, Noriyuki) Application d'Abel-Jacobi *p*-adique et cycles algébriques. [The *p*-adic Abel-Jacobi mapping and algebraic cycles] **89h:14006a**
— (*with* Suwa, Noriyuki) La conjecture de Gersten pour les faisceaux de Hodge-Witt logarithmique. [Gersten's conjecture for logarithmic Hodge-Witt sheaves] **89h:14006b**
Kurihara, Masato Abelian extensions of an absolutely unramified local field with general residue field. **89k:11118**
Milne, J. S. Corrections to: "Values of zeta functions of varieties over finite fields" [Amer. J. Math. 108 (1986), no. 2, 297–360; MR 87g:14019]. **89k:14037**
— Motivic cohomology and values of zeta functions. **89k:14038**
Stienstra, Jan Formal groups and congruences for *L*-functions. **89e:14020**
Suwa, Noriyuki Sur l'image de l'application d'Abel-Jacobi de Bloch. (English summary) [The image of Bloch's Abel-Jacobi mapping] **89j:14003**
— *see also* **Gros, Michel, 89h:14006a** *and* **89h:14006b**

14F35 Homotopy theory

Arapura, Donu Hodge theory with local coefficients and fundamental groups of varieties. **89k:14034**
Hain, Richard M. Iterated integrals and mixed Hodge structures on homotopy groups. **89f:14018**
Libgober, A. On π_2 of the complements to hypersurfaces which are generic projections. **89a:14024**

Items with secondary classifications in 14F35

Anderson, Greg W. Torsion points on Fermat Jacobians, roots of circular units and relative singular homology. **89g:14012**
Fulton, William On the topology of algebraic varieties. **89c:14027**
Hain, Richard M. Higher Albanese manifolds. **89a:14060**
— The de Rham homotopy theory of complex algebraic varieties. II. **89d:14028**
Nicas, Andrew J. Mixed Hodge structure in cyclic homology and algebraic *K*-theory. I. **89f:18007**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Baldassarri, F. Comparaison entre la cohomologie algébrique et la cohomologie *p*-adique rigide à coefficients dans un module différentiel. II. Cas des singularités régulières à plusieurs variables. [Comparison between algebraic cohomology and rigid *p*-adic cohomology with coefficients in a differential module. II. The case of regular multivariate singularities] **89h:14018**
(**Deligne, P.**) *see* **Oesterlé, Joseph, 89d:14029**
Hain, Richard M. The geometry of the mixed Hodge structure on the fundamental group. **89g:14010**
— The de Rham homotopy theory of complex algebraic varieties. II. **89d:14028**
(**Illusie, L.**) *see* **Oesterlé, Joseph, 89d:14029**
Oesterlé, Joseph Dégénérescence de la suite spectrale de Hodge vers de Rham (d'après Deligne et Illusie). [Degeneration of the Hodge to de Rham spectral sequence (following Deligne and Illusie)] **89d:14029**

Items with secondary classifications in 14F40

Alyakrinskiĭ, A. A. (*with* Tsikh, A. K.) Cohomology of rational differential forms of degree n in the space $\mathbf{C}^n$. **89d:32022**
Eichhorn, Jürgen L_2-cohomology. **89j:58005**
El Zein, Fouad Théorie de Hodge à coefficients: étude locale. (English summary) [Hodge theory with coefficients: a local study] **89j:14006**
Fontaine, Jean-Marc (*with* Messing, William) *p*-adic periods and *p*-adic étale cohomology. **89g:14009**
Ishida, Masa-Nori Torus embeddings and de Rham complexes. **89j:14028**
Jambu, Michel Yves Sur l'algèbre d'Orlik-Solomon. (English summary) [On the algebra of Orlik-Solomon] **89f:32023**
Messing, William *see* **Fontaine, Jean-Marc, 89g:14009**
Tsikh, A. K. *see* **Alyakrinskiĭ, A. A., 89d:32022**

14F45 Topological properties

Agrachëv, A. A. (*with* Gamkrelidze, R. V.) Calculation of the Euler characteristic of the intersections of real quadrics. **89h:14019**
— Homology of the intersections of real quadrics. **89h:14020**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) On the hard Lefschetz theorem in intersection homology for complex varieties with isolated singularities. **89c:14026**
Fulton, William On the topology of algebraic varieties. **89c:14027**
Gamkrelidze, R. V. *see* **Agrachëv, A. A., 89h:14019**
Gurjar, R. V. (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. I. **89k:14035**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:14026**
Shastri, A. R. *see* **Gurjar, R. V., 89k:14035**
Szafraniec, Zbigniew On the Euler characteristic of complex algebraic varieties. **89d:14030**
— On the Euler characteristic mod 2 of real projective varieties. **89k:14036**

Items with secondary classifications in 14F45

Chevallier, Benoît Courbes maximales de Harnack et discriminant. [Maximal Harnack curves and the discriminant] **89h:14022**
Friedman, Robert David (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. I. **89d:57046**
— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. II. **89d:57047**
Kharlamov, V. M. Nonamphicheiral surfaces of degree 4 in $\mathbf{RP}^3$. **89j:14014**
McConnell, Mark The rational homology of toric varieties is not a combinatorial invariant. **89i:14042**
Morgan, John W. *see* **Friedman, Robert David, 89d:57046** *and* **89d:57047**
Némethi, András Lefschetz theory for complex affine varieties. **89k:14031**
Shustin, E. I. A new *M*-curve of degree eight. (Russian) **89c:14049**
Silhol, Robert Sur la topologie des surfaces algébriques réelles. [The topology of real algebraic surfaces] **89b:14036**

14F99 None of the above, but in this section

Beĭlinson, A. A. On the derived category of perverse sheaves. **89b:14027**
— How to glue perverse sheaves. **89b:14028**
Green, Mark A new proof of the explicit Noether-Lefschetz theorem. **89c:14028**
Smith, S. P. The simple $\mathcal{D}$-module associated to the intersection homology complex for a class of plane curves. **89d:14031**

Items with secondary classifications in 14F99

Brasselet, J.-P. (*with* Gonzalez-Sprinberg, Gerardo) Espaces de Thom et contre-exemples de J.-L. Verdier et M. Goresky. [Thom spaces and counterexamples of J.-L. Verdier and M. Goresky] **89h:32031**
— (*with* Gonzalez-Sprinberg, Gerardo) Sur l'homologie d'intersection et les classes de Chern des variétés singulières (espaces de Thom, exemples de J.-L. Verdier et M. Goresky). [On the homology of intersection and Chern classes of singular varieties (Thom spaces, examples of J.-L. Verdier and M. Goresky)] **89h:32030**
Esnault, Hélène (*with* Viehweg, Eckart) Deligne-Beĭlinson cohomology. **89k:14008**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) Theorems of Lefschetz type in intersection homology. I. The hyperplane section theorem. **89k:32024**
Gonzalez-Sprinberg, Gerardo *see* **Brasselet, J.-P., 89h:32030** *and* **89h:32031**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89k:32024**
Le Bruyn, L. Cohomology of $\mathbf{P}_{(2)}^m$. **89h:16021**
MacPherson, R. (*with* Vilonen, K.) Perverse sheaves with singularities along the curve $y^n = x^m$. **89c:32025**
Maisonobe, Philippe Faisceaux pervers dont le support singulier est une courbe plane. [Perverse sheaves whose singular support is a plane curve] **89c:32024**
Selder, Erich On the Torelli problem of abelian complex Lie groups. **89m:32036**
(**Verdier, Jean-Louis**) *see* **Brasselet, J.-P., 89h:32030**
Viehweg, Eckart *see* **Esnault, Hélène, 89k:14008**
Vilonen, K. *see* **MacPherson, R., 89c:32025**
Voisin, Claire Courbes tétragonales et cohomologie de Koszul. [Tetragonal curves and the Koszul cohomology] **89e:14036**
Yokura, Shoji Algebraic cycles and intersection homology. **89h:14007**

14Gxx Special ground fields, arithmetic problems {For complex multiplication, see 11G15, 14K22. For automorphic and modular functions and forms, see also 11Fxx, 14K15.}

(**Cornell, Gary**) *see* **Arithmetic geometry, 89b:14029**
(**Silverman, Joseph H.**) *see* **Arithmetic geometry, 89b:14029**

Items listed otherwise than by author

Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Conference:
  Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Storrs, Conn. ★ Arithmetic geometry. **89b:14029**

14G05 Rationality questions

Items with secondary classifications in 14G05

Colliot-Thélène, J.-L. Arithmétique des variétés rationnelles et problèmes birationnels. [Arithmetic of rational varieties and birational problems] **89d:11051**
Katsylo, P. I. Rationality of moduli varieties of plane curves of degree $3k$. (Russian) **89m:14011**
Silverberg, Alice Torsion points on abelian varieties of CM-type. **89i:11065**

14G10 Zeta functions and related questions [see also 11R42, 11S40, 19F27]

Bombieri, Enrico (*with* Sperber, Steven) On the degree of Artin L-functions in characteristic p. (French summary) **89c:14029**
Dress, Andreas (*with* Siebeneicher, Christian) Symmetric powers of cyclic sets and the definition of A. Weil's zeta-functions. **89b:14030**
Kogan, L. A. (*with* Tashpulatov, B. T.) On the scalar product of Dirichlet series generated by elliptic curves with complex multiplication. (Russian) (*see* **89g:60002**)
Milne, J. S. Corrections to: "Values of zeta functions of varieties over finite fields" [Amer. J. Math. **108** (1986), no. 2, 297–360; MR 87g:14019]. **89k:14037**
— Motivic cohomology and values of zeta functions. **89k:14038**
Siebeneicher, Christian *see* **Dress, Andreas, 89b:14030**
Sperber, Steven *see* **Bombieri, Enrico, 89c:14029**
Stienstra, Jan Formal groups and congruences for L-functions. **89e:14020**
Tashpulatov, B. T. *see* **Kogan, L. A., (89g:60002)**

Items with secondary classifications in 14G10

Abdulali, Salman Zeta functions of Kuga fiber varieties. **89k:11048**
Anderson, Greg W. The hyperadelic gamma function: a précis. **89m:11115**
Beĭlinson, A. A. Height pairing between algebraic cycles. **89g:11052**
— Height pairing between algebraic cycles. **89h:11027**
Bloch, Spencer de Rham cohomology and conductors of curves. **89h:11028**
Bollaerts, Dirk On the Poincaré series associated to the p-adic points on a curve. **89i:11130**
Crew, Richard L-functions of p-adic characters and geometric Iwasawa theory. **89g:11049**
Deligne, P. (*with* Husemoller, Dale) Survey of Drinfel′d modules. **89f:11081**
Gerzhoĭ, P. I. (*with* Panchishkin, A. A.) A finiteness criterion for the number of rational points for twisted Weil elliptic curves. (Russian) **89b:11053**
Gross, Benedict H. (*with* Kohnen, Winfried; Zagier, Don) Heegner points and derivatives of L-series. II. **89i:11069**
Heep, Maria (*with* Weselmann, Uwe) Deligne's conjecture. **89k:11049**
Husemoller, Dale *see* **Deligne, P., 89f:11081**
Igusa, Jun-ichi On the arithmetic of a singular invariant. **89g:11116**
Illusie, L. Deligne's l-adic Fourier transform. **89h:11052**
Kohnen, Winfried *see* **Gross, Benedict H.; et al., 89i:11069**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) Period relations and the Tate conjecture for Hilbert modular surfaces. **89a:11064**
Panchishkin, A. A. *see* **Gerzhoĭ, P. I., 89b:11053**
Ramakrishnan, Dinakar *see* **Murty, V. Kumar, 89a:11064**
Rapoport, M. On the local zeta function of quaternionic Shimura varieties with bad reduction. **89c:11097**
Rosen, Michael Fourier series and special values of Hecke L-functions. **89c:11166**
Rubin, Karl Tate-Shafarevich groups and L-functions of elliptic curves with complex multiplication. **89a:11065**
Schappacher, Norbert (*with* Scholl, Anthony J.) Beĭlinson's theorem on modular curves. **89h:11029**
Schneider, Peter Introduction to the Beĭlinson conjectures. **89g:11053**
Scholl, Anthony J. *see* **Schappacher, Norbert, 89h:11029**
Teitelbaum, Jeremy p-adic periods of genus two Mumford-Schottky curves. **89b:14043**
Weselmann, Uwe *see* **Heep, Maria, 89k:11049**
Zagier, Don *see* **Gross, Benedict H.; et al., 89i:11069**

14G13 Weil-Tate conjectures [see also 14Cxx]

Tankeev, S. G. Cycles on simple abelian varieties of prime dimension over number fields. **89k:14039**

Items with secondary classifications in 14G13

Bombieri, Enrico (*with* Sperber, Steven) On the degree of Artin L-functions in characteristic p. (French summary) **89c:14029**
(Dieudonné, Jean) *see* **Freitag, Eberhard, 89f:14017**
Freitag, Eberhard (*with* Kiehl, Reinhardt) ★ Étale cohomology and the Weil conjecture. **89f:14017**
Kiehl, Reinhardt *see* **Freitag, Eberhard, 89f:14017**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) Period relations and the Tate conjecture for Hilbert modular surfaces. **89a:11064**
Ramakrishnan, Dinakar *see* **Murty, V. Kumar, 89a:11064**
Shioda, Tetsuji Some observations on Jacobi sums. **89i:11067**
Sperber, Steven *see* **Bombieri, Enrico, 89c:14029**
(Waterhouse, Betty S.) *see* **Freitag, Eberhard, 89f:14017**
(Waterhouse, William C.) *see* **Freitag, Eberhard, 89f:14017**

14G15 Finite ground fields

Hirschfeld, J. W. P. (*with* Voloch, J. F.) The characterization of elliptic curves over finite fields. **89g:14011**
Katz, Nicholas M. On a certain class of exponential sums. **89c:14030**
Keedwell, A. D. Simple constructions for elliptic cubic curves with specified small numbers of points. **89j:14013**
Lachaud, Gilles (*with* Wolfmann, Jacques) Sommes de Kloosterman, courbes elliptiques et codes cycliques en caractéristique 2. (English summary) [Kloosterman sums, elliptic curves and cyclic codes in characteristic 2] **89c:14031**
Le Brigand, D. (*with* Risler, Jean-Jacques) Algorithme de Brill-Noether et codes de Goppa. (English summary) [The Brill-Noether algorithm and Goppa codes] **89k:14040**
Risler, Jean-Jacques *see* **Le Brigand, D., 89k:14040**
Voloch, J. F. *see* **Hirschfeld, J. W. P., 89g:14011**
Wolfmann, Jacques *see* **Lachaud, Gilles, 89c:14031**

Items with secondary classifications in 14G15

Adolphson, Alan (*with* Sperber, Steven) Newton polyhedra and the degree of the L-function associated to an exponential sum. **89d:11064**
Bombieri, Enrico (*with* Sperber, Steven) On the degree of Artin L-functions in characteristic p. (French summary) **89c:14029**
Coleman, Robert F. On the Frobenius endomorphisms of Fermat and Artin-Schreier curves. **89c:11099**
Driencourt, Yves Un exemple de codes géométriques: les codes elliptiques. (English summary) [An example of geometric codes: the elliptic codes] **89c:11179**
Ekedahl, Torsten Canonical models of surfaces of general type in positive characteristic. **89k:14069**
Illusie, L. Deligne's l-adic Fourier transform. **89h:11052**
Koblitz, Neal I. Primality of the number of points on an elliptic curve over a finite field. **89h:11023**
Le Brigand, D. A [32, 17, 14]-geometric code coming from a singular curve. (French summary) **89k:94076**
Milne, J. S. Corrections to: "Values of zeta functions of varieties over finite fields" [Amer. J. Math. **108** (1986), no. 2, 297–360; MR 87g:14019]. **89k:14037**
— Motivic cohomology and values of zeta functions. **89k:14038**
Schoen, Chad Zero cycles modulo rational equivalence for some varieties over fields of transcendence degree one. **89d:14008**
Shioda, Tetsuji Some observations on Jacobi sums. **89i:11067**
Soublin, Jean-Pierre ★ Nombre de points d'une courbe sur un corps fini. (French) [The number of points on a curve over a finite field] **89c:11101**
Sperber, Steven *see* **Bombieri, Enrico, 89c:14029** *and* **Adolphson, Alan, 89d:11064**
Tiersma, H. J. Remarks on codes from Hermitian curves. **89a:94018**
Voloch, J. F. ★ Códigos corretores de erros. (Portuguese) [Error-correcting codes] **89j:94001**
Yui, Noriko Erratum: "The arithmetic of the product of two algebraic curves over a finite field" [J. Algebra **98** (1986), no. 1, 102–142; MR 87f:11042]. **89c:11102**

14G20 p-adic ground fields (local fields)

Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. (English summary) [Analytic open sets of an algebraic curve in rigid geometry] **89c:14032**
Saito, Takeshi Self-intersection 0-cycles and coherent sheaves on arithmetic schemes. **89h:14021**

Items with secondary classifications in 14G20

Baldassarri, F. Comparaison entre la cohomologie algébrique et la cohomologie p-adique rigide à coefficients dans un module différentiel. II. Cas des singularités régulières à plusieurs variables. [Comparison between algebraic cohomology and rigid p-adic cohomology with coefficients in a differential module. II. The case of regular multivariate singularities] **89h:14018**
Bollaerts, Dirk On the Poincaré series associated to the p-adic points on a curve. **89i:11130**
Bosch, S. Néron models. **89a:11060**
Denef, J. (*with* van den Dries, Lou) p-adic and real subanalytic sets. **89k:03034**
van den Dries, Lou *see* **Denef, J., 89k:03034**
Faltings, Gerd Hodge-Tate structures and modular forms. **89e:11033**
— p-adic Hodge theory. **89g:14008**
Fontaine, Jean-Marc (*with* Messing, William) p-adic periods and p-adic étale cohomology. **89g:14009**
Frampton, Paul H. (*with* Okada, Yasuhiro; Ubriaco, Marcelo R.) On adelic formulas for the p-adic string. **89j:81180**
Gerritzen, L. Periods and Gauss-Manin connection for the Mumford curve $y_2^{r_2}y_1^{r_1} - y_2^{r_2} - y_1^{r_1} + \lambda = 0$. **89b:14025**
Green, Mark A new proof of the explicit Noether-Lefschetz theorem. **89c:14028**
Herrlich, F. Moduli and Teichmüller space for degenerating curves. **89b:14041**
Messing, William *see* **Fontaine, Jean-Marc, 89g:14009**
Okada, Yasuhiro *see* **Frampton, Paul H.; et al., 89j:81180**
Reversat, M. Homogeneous vector bundles on some abelian varieties. **89a:14059**
Saito, Takeshi Conductor, discriminant, and the Noether formula of arithmetic surfaces. **89f:14024**
Soulé, C. Erratum: "The rank of étale cohomology of varieties over p-adic or number fields" [Compositio Math. **53** (1984), no. 1, 113–131; MR 86b:14013]. **89h:14015**
Souto Menéndez, José M. On a theorem due to Cassels. **89j:11056**
Teitelbaum, Jeremy p-adic periods of genus two Mumford-Schottky curves. **89b:14043**
Ubriaco, Marcelo R. *see* **Frampton, Paul H.; et al., 89j:81180**
Ueno, Kenji Compact rigid analytic spaces with special regard to surfaces. **89f:32055**
Ullrich, P. Rigid analytic covering maps. **89c:32074**
Van Steen, G. Prym varieties for Mumford curves. **89a:14036**
Zhang, R. B. Lagrangian formulation of open and closed p-adic strings. **89k:81182**

14G25 Global ground fields

Anderson, Greg W. Torsion points on Fermat Jacobians, roots of circular units and relative singular homology. **89g:14012**
Coleman, Robert F. Ramified torsion points on curves. **89c:14033**
Maehara, Kazuhisa The Mordell-Bombieri-Noguchi conjecture over function fields. **89b:14031**

Items with secondary classifications in 14G25

Bertolini, Massimo (*with* Canuto, Giuseppe) Good reduction of elliptic curves defined over $\mathbf{Q}(\sqrt[3]{2})$. **89d:11046**

Bosch, S. Néron models. **89a:11060**
Bost, J.-B. Fonctions de Green-Arakelov, fonctions thêta et courbes de genre 2. (English summary) [Green-Arakelov functions, theta functions and curves of genus 2] **89b:11051**
Bremner, A. On Euler's quartic surface. **89j:11026**
— On diagonal cubic surfaces. **89k:11013**
Brown, Martin Lawrence A note on orders of isogenies of elliptic curves. **89g:11044**
Canuto, Giuseppe *see* **Bertolini, Massimo, 89d:11046**
Coleman, Robert F. Torsion points on curves. **89d:11050**
— (*with* McCallum, William) Stable reduction of Fermat curves and Jacobi sum Hecke characters. **89h:11026**
Colliot-Thélène, J.-L. Surfaces cubiques diagonales. [Diagonal cubic surfaces] **89i:11068**
— (*with* Sansuc, Jean-Jacques) La descente sur les variétés rationnelles. II. [Descent on rational varieties. II] **89f:11082**
(Cornell, Gary) *see* **Arithmetic geometry, 89b:14029**
Cremona, J. E. Addendum and errata: "Hyperbolic tessellations, modular symbols, and elliptic curves over complex quadratic fields" [Compositio Math. **51** (1984), no. 3, 275–324; MR 85j:11063]. **89a:11058**
Dem'yanenko, V. A. Sharp estimates for the torsion of curves of genus one. (Russian) **89a:14054**
— The number of divisor classes of elliptic fields. (Russian) **89k:11042**
Faltings, Gerd Neuere Entwicklungen in der arithmetischen algebraischen Geometrie. [Recent developments in arithmetic algebraic geometry] **89d:11045**
Franke, Jens (*with* Manin, Yu. I.; Tschinkel, Yuri) Rational points of bounded height on Fano varieties. **89m:11060**
Frey, Gerhard On the Selmer group of twists of elliptic curves with $\mathbf{Q}$-rational torsion points. **89k:11043**
Gross, Benedict H. Representation theory and the cuspidal group of $X(p)$. **89b:11052**
Hindry, Marc (*with* Silverman, Joseph H.) The canonical height and integral points on elliptic curves. **89k:11044**
Horie, Kuniaki *see* **Nakagawa, Jin, 89k:11113**
Ishii, Hidenori The nonexistence of elliptic curves with everywhere good reduction over certain quadratic fields. **89j:11054**
Kanevsky, Dimitri Application of the conjecture on the Manin obstruction to various Diophantine problems. **89b:11032**
Kenku, M. A. (*with* Momose, F.) Torsion points on elliptic curves defined over quadratic fields. **89c:11091**
Koblitz, Neal I. ★ Введение в эллиптические кривые и модулярные формы. (Russian) [Introduction to elliptic curves and modular forms] **89d:11047**
Kolyvagin, V. A. Finiteness of $E(\mathbf{Q})$ and $\text{Ш}(E,\mathbf{Q})$ for a subclass of Weil curves. **89m:11056**
Lehman, J. Larry Rational points on elliptic curves with complex multiplication by the ring of integers in $\mathbf{Q}(\sqrt{-7})$. **89a:11059**
Manin, Yu. I. *see* **Franke, Jens; et al., 89m:11060** *and* **Koblitz, Neal I., 89d:11047**
McCallum, William *see* **Coleman, Robert F., 89h:11026**
Milne, J. S. Corrections to: "Values of zeta functions of varieties over finite fields" [Amer. J. Math. **108** (1986), no. 2, 297–360; MR 87g:14019]. **89k:14037**
— Motivic cohomology and values of zeta functions. **89k:14038**
Momose, F. *see* **Kenku, M. A., 89c:11091**
Nakagawa, Jin (*with* Horie, Kuniaki) Elliptic curves with no rational points. **89k:11113**
(Ogievetskiĭ, O. V.) *see* **Koblitz, Neal I., 89d:11047**
Perrin-Riou, Bernadette Points de Heegner et dérivées de fonctions L p-adiques. [Heegner points and derivatives of p-adic L-functions] **89d:11034**
Rubin, Karl Local units, elliptic units, Heegner points and elliptic curves. **89h:11069**
Saito, Takeshi Conductor, discriminant, and the Noether formula of arithmetic surfaces. **89f:14024**
Salberger, Per Zero-cycles on rational surfaces over number fields. **89c:14010**
— On the arithmetic of certain intersections of two quadrics. **89m:11061**
Sansuc, Jean-Jacques Principe de Hasse, surfaces cubiques et intersections de deux quadriques. [The Hasse principle, cubic surfaces and intersections of two quadrics] **89f:11084**
— *see also* **Colliot-Thélène, J.-L., 89f:11082**
Schoen, Chad Zero cycles modulo rational equivalence for some varieties over fields of transcendence degree one. **89d:14008**
Silverman, Joseph H. The theory of height functions. (*see* **89b:14029**)
— Integral points on abelian surfaces are widely spaced. **89c:14070**
— A quantitative version of Siegel's theorem: integral points on elliptic curves and Catalan curves. **89g:11047**
— Computing heights on elliptic curves. **89d:11049**
— Elliptic curves of bounded degree and height. **89i:11063**
— *see also* **Hindry, Marc, 89k:11044** *and* **Arithmetic geometry, 89b:14029**
Soulé, C. Erratum: "The rank of étale cohomology of varieties over p-adic or number fields" [Compositio Math. **53** (1984), no. 1, 113–131; MR 86b:14013]. **89h:14015**
Stevens, Glenn On the periods of modular elliptic curves. **89i:11064**
Tschinkel, Yuri *see* **Franke, Jens; et al., 89m:11060**

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Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Conference:
  Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Storrs, Conn. ★ Arithmetic geometry. **89b:14029**

14G30 Real ground fields [see also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered]

Ayoub, G. *see* **Ojanguren, M., 89c:14035**
Barge, Jean (*with* Ojanguren, M.) Fibrés algébriques sur une surface réelle. [Algebraic bundles on a real surface] **89d:14032**
Benedetti, Riccardo Finiteness for the topology of semi-algebraic sets of bounded complexity—some examples. **89d:14033**
Bochnak, J. (*with* Kucharz, W.) Sur les classes d'homologie représentables par des hypersurfaces algébriques réelles. (English summary) [On homology classes represented by real algebraic hypersurfaces] **89b:14032**
Bröcker, L. On the separation of basic semialgebraic sets by polynomials. **89d:14034**
Buchner, Michael A. (*with* Kucharz, W.) Algebraic vector bundles over real algebraic varieties. **89a:14025**
Chevallier, Benoît Courbes maximales de Harnack et discriminant. [Maximal Harnack curves and the discriminant] **89h:14022**
Cucker, Felipe Sur les anneaux de sections globales du faisceau structural sur le spectre réel. (English summary) [On the global section rings of the structure sheaf on the real spectrum] **89b:14033**
Diop, Mahmadou Théorèmes des zéros réels et des éléments positifs avec paramètres. (English summary) [Theorems on real zeros and positive elements with parameters] **89f:14019**
Kharlamov, V. M. Nonamphicheiral surfaces of degree 4 in $\mathbf{RP}^3$. **89j:14014**
Korchagin, A. B. Isotopy classification of plane seventh degree curves with the only singular point Z_{15}. **89k:14041**
Kucharz, W. A remark on projective modules. **89b:14034**
— Complex vector bundles on real algebraic varieties of small dimension. **89k:14042**
— Real algebraic curves and complete intersections. **89g:14013**
— *see also* **Buchner, Michael A., 89a:14025** *and* **Bochnak, J., 89b:14032**
Kurdyka, Krzysztof Ensembles semi-algébriques symétriques par arcs. [Arcwise symmetric semi-algebraic sets] **89j:14015**
Loeser, François Un analogue local de l'inégalité de Petrowsky-Oleinik. [A local analogue of the Petrovskiĭ-Oleĭnik inequality] **89c:14034**
Nabutovsky, Alexander Nonrecursive functions in real algebraic geometry. **89j:14016**
Ojanguren, M. (*with* Ayoub, G.) The Witt group of a real surface. **89c:14035**
— *see also* **Barge, Jean, 89d:14032**
Patterson, Richard R. Parametric cubics as algebraic curves. **89k:14043**
Pecker, Daniel Sur l'équation d'un ensemble algébrique de $\mathbf{R}^{n+1}$ dont la projection dans $\mathbf{R}^n$ est un ensemble semi-algébrique fermé donné. (English summary) [On the equation of an algebraic set of $\mathbf{R}^{n+1}$ projecting upon a given closed semi-algebraic subset of $\mathbf{R}^n$] **89d:14035**
Polotovskiĭ, G. M. On the classification of nonsingular curves of degree 8. **89k:14044**
Risler, Jean-Jacques Propriétés métriques des ensembles semi-algébriques réels et complexité additive. [Metric properties of real semi-algebraic sets and additive complexity] **89c:14036**
Schwartz, Niels Real closed rings. **89b:14035**
— ★ The basic theory of real closed spaces. **89c:14037**
— Open locally semi-algebraic maps. **89j:14017**
Silhol, Robert Sur la topologie des surfaces algébriques réelles. [The topology of real algebraic surfaces] **89b:14036**
Tognoli, Alberto Quelques exemples en géométrie algébrique réelle. [Some examples in real algebraic geometry] **89a:14026**
— Some results on contraction of real sets. (Italian summary) **89e:14021**
— Any compact differentiable submanifold of $\mathbf{R}^n$ has an algebraic approximation in $\mathbf{R}^n$. **89i:14016**
Trotman, David On the canonical Whitney stratification of algebraic hypersurfaces. **89a:14027**

Items with secondary classifications in 14G30

Akbulut, S. (*with* King, Henry Churchill) Polynomial equations of immersed surfaces. **89c:57028**
Andradas, C. (*with* Bröcker, L.; Ruiz, Jesús M.) Minimal generation of basic open semianalytic sets. **89f:32016**
Arnon, Dennis S. (*with* McCallum, Scott) A polynomial-time algorithm for the topological type of a real algebraic curve. **89k:12005**
Bochnak, J. (*with* Kucharz, W.) Nonisomorphic algebraic structures on smooth manifolds. **89d:32019**
— (*with* Kucharz, W.) On real algebraic morphisms into even-dimensional spheres. **89k:57060**
Bröcker, L. *see* **Andradas, C.; et al., 89f:32016**
Bujalance, E. (*with* Etayo Miqueo, José Javier; Gamboa, J. M.) Algebraic function fields in one variable over real-closed ground fields. **89a:12009**
Coste, M. (*with* Roy, Marie-Françoise) Thom's lemma, the coding of real algebraic numbers and the computation of the topology of semi-algebraic sets. **89g:12002**
Cucker, Felipe Fonctions de Nash sur les variétés affines. (English summary) [Nash functions on affine varieties] **89m:32017**
Denef, J. (*with* van den Dries, Lou) p-adic and real subanalytic sets. **89k:03034**
van den Dries, Lou *see* **Denef, J., 89k:03034**
Etayo Miqueo, José Javier *see* **Bujalance, E.; et al., 89a:12009**
Gamboa, J. M. Un exemple d'ensemble constructible à adhérence non constructible. (English summary) [An example of a constructible set with nonconstructible closure] **89f:32015**
— *see also* **Bujalance, E.; et al., 89a:12009**
Huber, Roland Ein semialgebraischer Beweis der topologischen Form des Hauptsatzes von Zariski. (English summary) [A semi-algebraic proof of the topological form of Zariski's main theorem] **89i:32017**
Ischebeck, Friedrich (*with* Schülting, Heinz-Werner) Rational and homological equivalence for real cycles. **89k:14004**
Kharlamov, V. M. Surfaces non amphichérales de degré 4 dans $\mathbf{RP}^3$. [Nonamphicheiral surfaces of degree 4 in $\mathbf{RP}^3$] **89f:57044**
King, Henry Churchill *see* **Akbulut, S., 89c:57028**
Kucharz, W. Algebraic cycles and vector bundles on real affine threefolds. **89c:14020**
— *see also* **Bochnak, J., 89d:32019** *and* **89k:57060**
Kurdyka, Krzysztof (*with* Rusek, Kamil) Surjectivity of certain injective semialgebraic transformations of $\mathbf{R}^n$. **89m:32018**
Lewis, D. W. On the level. **89f:11063**
McCallum, Scott *see* **Arnon, Dennis S., 89k:12005**
Natanzon, S. M. Real meromorphic functions on real algebraic curves. **89c:14048**

Risler, Jean-Jacques Some aspects of complexity in real algebraic geometry. **89k:12002**

(Rokhlin, V. A.) *see* **Seminar: Topology and Geometry, 89f:57001**

Roy, Marie-Françoise *see* **Coste, M., 89g:12002**

Ruiz, Jesús M. *see* **Andradas, C.; et al., 89f:32016**

Rusek, Kamil *see* **Kurdyka, Krzysztof, 89m:32018**

Schülting, Heinz-Werner *see* **Ischebeck, Friedrich, 89k:14004**

Shiota, Masahiro ★ Nash manifolds. **89b:58011**

Shustin, E. I. A new M-curve of degree eight. (Russian) **89c:14049**

Szafraniec, Zbigniew On the Euler characteristic mod 2 of real projective varieties. **89k:14036**

Tougeron, Jean-Claude Sur certaines algèbres de fonctions analytiques. [On certain algebras of analytic functions] **89b:32016**

Vinnikov, Victor Selfadjoint determinantal representations of real irreducible cubics. **89h:14043**

(Viro, O. Ya.) *see* **Seminar: Topology and Geometry, 89f:57001**

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Lecture Notes in Mathematics ★ Topology and geometry—Rohlin Seminar. **89f:57001**

Seminar:

Topology and Geometry ★ Topology and geometry—Rohlin Seminar. **89f:57001**

14G99 None of the above, but in this section

Manders, Kenneth On algebraic geometry over rings with exponentiation. **89d:14036**

Items with secondary classifications in 14G99

Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps de séries formelles en une variable sur un corps algébriquement clos. [The Tate-Poitou theorem for the function fields of curves defined over fields of formal power series in one variable over an algebraically closed field] **89c:11100**

Drinfel'd, V. G. Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**

Faltings, Gerd Report on arithmetic intersections. (*see* **89m:81001**)

Kazhdan, D. Algebraic geometry and representation theory. **89d:22014**

Livné, Ron The average distribution of cubic exponential sums. **89f:11116**

Silverman, Joseph H. Arithmetic distance functions and height functions in Diophantine geometry. **89a:11066**

14Hxx Curves

14H05 Algebraic functions [see also 14K20, 32G20]

Bedoya, Hernando (*with* Stöhr, Karl-Otto) An algorithm to calculate discrete invariants of singular primes in function fields. **89b:14037**

Cohn, P. M. Correction to: "Puiseux's theorem revisited" [J. Pure Appl. Algebra **31** (1984), no. 1-3, 1–4; MR 85d:14035]. **89e:14022**

Farkas, H. M. Remarks on Clifford indices. **89j:14018**

Parimala, R. Witt groups of conics, elliptic, and hyperelliptic curves. **89a:14028**

Stöhr, Karl-Otto *see* **Bedoya, Hernando, 89b:14037**

Items with secondary classifications in 14H05

Asada, Mamoru On the action of the Frobenius automorphism on the pro-l fundamental group. **89k:14019**

Bujalance, E. (*with* Etayo Miqueo, José Javier; Gamboa, J. M.) Algebraic function fields in one variable over real-closed ground fields. **89a:12009**

Dzhuraev, O. Efficient construction of a field of algebraic functions corresponding to a four-sheeted covering of a sphere, and applications. (Russian) **89c:14042**

Etayo Miqueo, José Javier *see* **Bujalance, E.; et al., 89a:12009**

Gamboa, J. M. *see* **Bujalance, E.; et al., 89a:12009**

Kodama, Tetsuo (*with* Washio, Tadashi) Hasse-Witt matrices of Fermat curves. **89b:14042**

Riera, Gonzalo (*with* Rodriguez, Rubi) Uniformization of surfaces of genus two with automorphisms. **89m:30090**

Rodriguez, Rubi *see* **Riera, Gonzalo, 89m:30090**

Stöhr, Karl-Otto On singular primes in function fields. **89c:14041**

Washio, Tadashi *see* **Kodama, Tetsuo, 89b:14042**

14H10 Families, moduli (algebraic)

Arbarello, E. On the Picard group of the moduli space of algebraic curves. (Italian summary) **89a:14029**

Ballico, Edoardo (*with* Ellia, Philippe) Bonnes petites composantes des schémas de Hilbert de courbes lisses de $\mathbf{P}^n$. (English summary) [Good components of Hilbert schemes of smooth curves in $\mathbf{P}^n$] **89c:14038**

— On the projections of canonical curves. **89i:14017**

Chang, Mei Chu (*with* Ran, Z.) Deformations and smoothing of complete linear systems on reducible curves. **89f:14020**

— (*with* Ran, Z.) Divisors on $\overline{\mathscr{M}}_g$ and the cosmological constant. (*see* **89m:81001**)

— (*with* Ran, Z.) A note on the slope of subvarieties of $\overline{\mathscr{M}}_{15}$ ($6\frac{2}{3} \leq S_{15} \leq 6\frac{3}{4}$). (*see* **89m:81001**)

Ciliberto, Ciro Hilbert functions of finite sets of points and the genus of a curve in a projective space. **89c:14039**

— On rationally determined line bundles on a family of projective curves with general moduli. **89a:14030**

— Errata corrige to: "Rationally determined line bundles on families of curves" [in *The Curves Seminar at Queen's, Vol. IV* (Kingston, ON, 1985–1986), Exp. No. D, Queen's Univ., Kingston, ON, 1986; MR 88j:14032]. **89k:14045**

— (*with* Harris, Joseph Daniel; Miranda, Rick) On the surjectivity of the Wahl map. **89m:14010**

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Milne, J. S. Jacobian varieties. (*see* **89b:14029**)

Muñoz Porras, José Ma. On the structure of the birational Abel morphism. **89e:14030**

Pirola, Gian Pietro *see* **Bardelli, Fabio, 89k:14052**

Recillas Pishmish, Sevin *see* **Del Centina, Andrea, 89c:14043**

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Tapia-Recillas, H. *see* **Smith, Roy Campbell, 89h:14026**

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— On translation invariance for W_d^r. **89a:14035**

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14H45 Special curves

Akimoto, Yoshihisa *see* **Ono, Tomoaki, 89e:14035**

Ascenzi, M.-G. The restricted tangent bundle of a rational curve in $\mathbf{P}^2$. **89i:14023**

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— On the postulation of disjoint rational curves in a projective space. (Italian summary) **89a:14037**

— (*with* Ellia, Philippe) A program for space curves. **89e:14031**

— On the index of regularity of nonspecial space curves. **89g:14021**

— (*with* Ellia, Philippe) On space curves with maximal genus in the range A. **89d:14042**

— On smooth curves with multisecant lines. **89j:14022**

Bolondi, Giorgio On the classification of curves linked to two skew lines. **89e:14032**

— Liaison and maximal rank. (Italian summary) **89b:14047**

— Smoothing curves by reflexive sheaves. **89e:14033**

Chang, Mei Chu Some good unirational families of space curves. **89k:14054**

Chiantini, Luca (*with* Valabrega, Paolo) On some properties of subcanonical curves and unstable bundles. **89a:14038**

Cinquegrani, Maria Grazia Nonsingular curves passing through a zero-dimensional subscheme of $\mathbf{P}^2$. **89f:14028**

Coppens, Marc On G. Martens' characterization of smooth plane curves. **89b:14048**

— Smooth curves having infinitely many linear systems g_d^1. I. **89g:14022**

D'Almeida, Jean Une propriété de la courbe elliptique lisse de degré huit de $\mathbf{P}^3$. [A property of the smooth elliptic curve in $\mathbf{P}^3$ of degree eight] **89c:14044**

Ein, Lawrence (*with* Eisenbud, David; Katz, Sheldon H.) Varieties cut out by quadrics: scheme-theoretic versus homogeneous generation of ideals. **89f:14029**

Eisenbud, David (*with* Koh, Jee; Stillman, Michael) Determinantal equations for curves of high degree. **89g:14023**

— *see also* **Ein, Lawrence; et al., 89f:14029**

Eliahou, Shalom Symbolic powers of monomial curves. **89k:14055**

Ellia, Philippe (*with* Fiorentini, Mario) Quelques remarques sur les courbes arithmétiquement Buchsbaum de l'espace projectif. (Italian summary) [Some remarks on arithmetically Buchsbaum curves in projective space] **89g:14024**

— *see also* **Ballico, Edoardo, 89b:14046; 89d:14042** *and* **89e:14031**

Estrada Sarlabous, J. Higher differentials on cyclic curves. **89f:14030**

Fiorentini, Mario *see* **Ellia, Philippe, 89g:14024**

Geigle, Werner (*with* Lenzing, Helmut) A class of weighted projective curves arising in representation theory of finite-dimensional algebras. **89b:14049**

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Giuffrida, Salvatore On the intersection of two curves contained in a cubic curve in $\mathbf{P}^3$. (Italian. English summary) **89a:14039**

Gruson, Laurent (*with* Peskine, Christian) Space curves: complete series and speciality. **89c:14045**

Hartshorne, Robin On the classification of algebraic space curves. II. **89g:14025**

— (*with* Hirschowitz, André) Nouvelles courbes de bon genre dans l'espace projectif. [New curves with good genus in projective space] **89d:14043**

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Homma, Masaaki Smooth curves with smooth dual varieties. **89d:14044**

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Ono, Tomoaki (*with* Akimoto, Yoshihisa) A space curve of genus 7 and degree 8 whose normal bundle is semistable. **89e:14035**

— Space curves of genus 7 and degree 8 on a nonsingular cubic surface with stable normal bundle. **89d:14046**

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Voisin, Claire Courbes tétragonales et cohomologie de Koszul. [Tetragonal curves and the Koszul cohomology] **89e:14036**

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Dalalyan, S. G. The Prym variety of a ramified double covering of a trigonal curve. (Russian. Armenian summary) (Not in MR)

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Dolcetti, A. (*with* Pareschi, Giuseppe) On linearly normal space curves. **89d:14037**

Gudkov, D. A. Plane real projective quartic curves. **89i:58012**

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14H50 Space curves (use only for secondary classification) [see also 14H45]

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Bolondi, Giorgio On the classification of curves linked to two skew lines. **89e:14032**

— Liaison and maximal rank. (Italian summary) **89b:14047**

Chang, Mei Chu Some good unirational families of space curves. **89k:14054**

Chiantini, Luca A remark on the cohomology of curves in $\mathbf{P}^3$. **89a:14068**

— (*with* Valabrega, Paolo) On some properties of subcanonical curves and unstable bundles. **89a:14038**

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D'Almeida, Jean Une propriété de la courbe elliptique lisse de degré huit de $\mathbf{P}^3$. [A property of the smooth elliptic curve in $\mathbf{P}^3$ of degree eight] **89c:14044**

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Ellia, Philippe (*with* Fiorentini, Mario) Quelques remarques sur les courbes arithmétiquement Buchsbaum de l'espace projectif. (Italian summary) [Some remarks on arithmetically Buchsbaum curves in projective space] **89g:14024**

— *see also* **Ballico, Edoardo, 89d:14042** *and* **89e:14031**

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— (*with* Hirschowitz, André) Nouvelles courbes de bon genre dans l'espace projectif. [New curves with good genus in projective space] **89d:14043**

— Stable reflexive sheaves. III. **89h:14011**

Hirschowitz, André *see* **Hartshorne, Robin, 89d:14043**

Holme, Audun On the classification of smooth projective subvarieties of $\mathbf{P}^N$. **89c:14066**

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Jaffe, David B. Space curves which are the intersection of a cone with another surface. **89m:14015**

Katz, Sheldon H. Iteration of multiple point formulas and applications to conics. **89j:14032**

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— (*with* Ragusa, Alfio) The Hilbert function of generic plane sections of curves of $\mathbf{P}^3$. **89g:14027**

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Mestrano, N. Points rationnels des courbes génériques de $\mathbf{P}^3$. II. (English summary) [Rational points of generic curves in $\mathbf{P}^3$. II] **89f:14021**

Migliore, Juan Buchsbaum curves in $\mathbf{P}^3$. **89a:14067**

Ono, Tomoaki (*with* Akimoto, Yoshihisa) A space curve of genus 7 and degree 8 whose normal bundle is semistable. **89e:14035**
— Space curves of genus 7 and degree 8 on a nonsingular cubic surface with stable normal bundle. **89d:14046**
Pareschi, Giuseppe Arithmetically Buchsbaum curves on surfaces of degree 3 or 4 in projective space. (Italian. English summary) **89i:14027**
— *see also* **Dolcetti, A., 89d:14037**
Perrin, Daniel Courbes passant par m points généraux de $\mathbf{P}^3$. (English summary) [Curves passing through m general points of $\mathbf{P}^3$] **89j:14020**
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Ragusa, Alfio *see* **Maggioni, R., 89g:14027** *and* **89k:14086**
Roggero, Margherita On the rank 2 reflexive sheaves and the subcanonical curves in $\mathbf{P}^3$. **89g:14007**
Schaub, Daniel Générateurs explicites du groupe de Chow du schéma de Hilbert des cubiques de $\mathbf{P}(3, \mathbf{C})$. [Explicit generators of the Chow group of the Hilbert scheme of cubics in $\mathbf{P}(3, \mathbf{C})$] **89m:14004**
Schenzel, Peter Examples of Noetherian symbolic blow-up rings. **89j:13015**
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Vogel, Wolfgang *see* **Geramita, Anthony V.; et al., 89k:14056**

14H99 None of the above, but in this section

Maggioni, R. (*with* Ragusa, Alfio) The Hilbert function of generic plane sections of curves of $\mathbf{P}^3$. **89g:14027**
Natanzon, S. M. Real meromorphic functions on real algebraic curves. **89c:14048**
Ragusa, Alfio *see* **Maggioni, R., 89g:14027**
Shustin, E. I. A new M-curve of degree eight. (Russian) **89c:14049**
Stöhr, Karl-Otto (*with* Viana, Paulo) A variant of Petri's analysis of the canonical ideal of an algebraic curve. **89k:14057**
Viana, Paulo *see* **Stöhr, Karl-Otto, 89k:14057**

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— (*with* Etayo Gordejuela, José Javier) Large automorphism groups of hyperelliptic Klein surfaces. **89i:20072**
Davison, T. M. K. Bilinear three-cycles on the projective line. **89g:39011**
Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
Ein, Lawrence The irreducibility of the Hilbert scheme of smooth space curves. **89f:14006**
Etayo Gordejuela, José Javier *see* **Bujalance, E., 89i:20072**
Fiedler, Thomas Totally real embeddings of the torus into $\mathbf{C}^2$. **89f:57043**
Horiuchi, Ryutaro (*with* Tanimoto, Tomihiko) Fixed points of automorphisms of compact Riemann surfaces and higher-order Weierstrass points. **89i:30054**
Kimura, Hideyuki *see* **Kuribayashi, Akikazu, 89g:30081a; 89g:30081b** *and* **89h:30058**
Korchagin, A. B. Isotopy classification of plane seventh degree curves with the only singular point Z_{15}. **89k:14041**
Kuribayashi, Akikazu (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. (Japanese. English summary) **89g:30081a**
— (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. II. (Japanese. English summary) **89g:30081b**
— (*with* Kimura, Hideyuki) Remarks on the existence theorem. **89h:30058**
Levin, A. M. Supersymmetric elliptic and modular functions. **89j:14026**
MacPherson, R. (*with* Vilonen, K.) Perverse sheaves with singularities along the curve $y^n = x^m$. **89c:32025**
Maggioni, R. (*with* Ragusa, Alfio) Connections between Hilbert function and geometric properties for a finite set of points in $\mathbf{P}^2$. **89c:14046**
Maisonobe, Philippe Faisceaux pervers dont le support singulier est une courbe plane. [Perverse sheaves whose singular support is a plane curve] **89c:32024**
Manders, Kenneth On algebraic geometry over rings with exponentiation. **89d:14036**
Muhasky, Jerry L. The differential operator ring of an affine curve. **89i:16001**
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Rabin, Jeffrey M. Super Riemann surfaces. (*see* **89m:81001**)
Ragusa, Alfio *see* **Maggioni, R., 89c:14046**
Smith, S. P. The simple $\mathscr{D}$-module associated to the intersection homology complex for a class of plane curves. **89d:14031**
Tanimoto, Tomihiko *see* **Horiuchi, Ryutaro, 89i:30054**
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Zaidenberg, M. G. Stability of hyperbolic embeddedness and the construction of examples. **89f:32047**

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14J05 Picard group

Blass, Piotr (*with* Lang, Jeffrey) Surfaces de Zariski factorielles. (English summary) [Factorial Zariski surfaces] **89f:14032**
— *see also* **Lang, Jeffrey, 89d:14048**
Lang, Jeffrey The factoriality of Zariski rings. **89d:14047**
— (*with* Blass, Piotr) Locally factorial generic Zariski surfaces are factorial. **89d:14048**
— *see also* **Blass, Piotr, 89f:14032**

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Morrison, David R. (*with* Saito, Masa-Hiko) Cremona transformations and degrees of period maps for $K3$ surfaces with ordinary double points. **89k:14067**
Saito, Masa-Hiko *see* **Morrison, David R., 89k:14067**
Wehler, Joachim $K3$-surfaces with Picard number 2. **89b:14054**

14J10 Families, moduli, classification: algebraic theory

Adler, Mark (*with* van Moerbeke, Pierre) The intersection of four quadrics in $\mathbf{P}^6$, abelian surfaces and their moduli. **89f:14033**
Beltrametti, Mauro (*with* Lanteri, Antonio; Palleschi, Marino) Algebraic surfaces containing an ample divisor of arithmetic genus two. **89e:14037**
Catanese, F. (*with* Debarre, Olivier) Surfaces with $K^2 = 2,\ p_g = 1,\ q = 0$. **89m:14017**
Debarre, Olivier *see* **Catanese, F., 89m:14017**
D'Souza, Harry Threefolds whose hyperplane sections are elliptic surfaces. **89i:14028**
Ekedahl, Torsten Foliations and inseparable morphisms. **89d:14049**
Fujita, Takao Classification of noncomplete algebraic varieties. **89c:14050**
Katsura, Toshiyuki A remark on the locus of abelian surfaces of p-rank ≤ 1. **89m:14018**
Kawamata, Yujiro The Zariski decomposition of log-canonical divisors. **89b:14052**
Kollár, János Subadditivity of the Kodaira dimension: fibers of general type. **89i:14029**
Lanteri, Antonio *see* **Beltrametti, Mauro; et al., 89e:14037**
Luo, Zhao Hua An invariant approach to the theory of logarithmic Kodaira dimension of algebraic varieties. **89d:14050**
Maeda, Hidetoshi On polarized surfaces of sectional genus three. **89h:14027**
Miyanishi, Masayoshi (*with* Tsunoda, S.) Open algebraic surfaces with Kodaira dimension $-\infty$. **89d:14051**
Miyaoka, Yoichi On the Kodaira dimension of minimal threefolds. **89g:14028**
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Mori, Shigefumi Classification of higher-dimensional varieties. **89a:14040**
Palleschi, Marino *see* **Beltrametti, Mauro; et al., 89e:14037**
Reider, Igor Bounds for the number of moduli for irregular varieties of general type. **89d:14052**
Sakai, Fumio Classification of normal surfaces. **89d:14053**
— Ruled fibrations on normal surfaces. **89f:14034**
Tsunoda, S. *see* **Miyanishi, Masayoshi, 89d:14051**
Viehweg, Eckart Vanishing theorems and positivity in algebraic fibre spaces. **89i:14030**
Voisin, Claire Une précision concernant le théorème de Noether. [A sharpening of Noether's theorem] **89k:14058**
Zhang, De-Qi Logarithmic del Pezzo surfaces of rank one with contractible boundaries. **89k:14059**

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Bartalesi, A. (*with* Catanese, F.) Surfaces with $K^2 = 6$, $\chi = 4$, and with torsion. **89a:14044**
Beltrametti, Mauro Contractions of nonnumerically effective extremal rays in dimension 4. **89c:14064**
— On d-folds whose canonical bundle is not numerically effective, according to Mori and Kawamata. (Italian summary) **89c:14063**
Catanese, F. Canonical rings and "special" surfaces of general type. **89f:14039**
— *see also* **Bartalesi, A., 89a:14044**
Ekedahl, Torsten Canonical models of surfaces of general type in positive characteristic. **89k:14069**
Green, Mark A new proof of the explicit Noether-Lefschetz theorem. **89c:14028**
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Hübsch, Tristan *see* **Green, Paul S., 89c:14065**
Ionescu, Paltin Ample and very ample divisors on surfaces. **89f:14037**
Kapranov, M. M. Cuspidal divisors on the modular varieties of elliptic modules. **89c:11095**
Katsura, Toshiyuki Theorem of Lüroth and related topics. **89k:14065**
Kawamata, Yujiro Crepant blowing-up of 3-dimensional canonical singularities and its application to degenerations of surfaces. **89d:14023**
Maehara, Kazuhisa The Mordell-Bombieri-Noguchi conjecture over function fields. **89b:14031**
Miranda, Rick On canonical surfaces of general type with $K^2 = 3\chi - 10$. **89c:14059**
Miyanishi, Masayoshi Projective degenerations of surfaces according to S. Tsunoda. **89k:14021**
Miyaoka, Yoichi Abundance conjecture for 3-folds: case $\nu = 1$. **89m:14023**
Mori, Shigefumi (*with* Morrison, David R.; Morrison, Ian) On four-dimensional terminal quotient singularities. **89i:14036**
Morrison, David R. *see* **Mori, Shigefumi; et al., 89i:14036**
Morrison, Ian *see* **Mori, Shigefumi; et al., 89i:14036**
Persson, Ulf An introduction to the geography of surfaces of general type. **89a:14057**
Reid, Miles Young person's guide to canonical singularities. **89b:14016**
— Tendencious survey of 3-folds. **89h:14033**
Seiler, Wolfgang K. Deformations of Weierstrass elliptic surfaces. **89k:14066**
Shokurov, V. V. Extremal contractions of three-dimensional algebraic varieties. (Russian) **89e:14041**
— Numerical geometry of algebraic varieties. **89g:14006**

14J15 Moduli, classification: analytic theory [see also 32J15]

Catanese, F. Moduli of algebraic surfaces. **89i:14031**
Hashimoto, Naoki Deformations of some algebraic surfaces with $q = 0$ and $p_g = 1$. **89f:14035**
Nakayama, Noboru The lower semicontinuity of the plurigenera of complex varieties. **89h:14028**

Items with secondary classifications in 14J15

Friedman, Robert David (*with* Morgan, John W.) Algebraic surfaces and 4-manifolds: some conjectures and speculations. **89g:57046**

Kirwan, F. C. (*with* Lee, Ronnie; Weintraub, Steven H.) Quotients of the complex ball by discrete groups. **89j:32034**
Kondō, Shigeyuki On the Albanese variety of the moduli space of polarized $K3$ surfaces. **89d:32052**
Lee, Ronnie *see* **Kirwan, F. C.; et al., 89j:32034**
Miyaoka, Yoichi On the Kodaira dimension of minimal threefolds. **89g:14028**
Morgan, John W. *see* **Friedman, Robert David, 89g:57046**
Morrison, David R. (*with* Saito, Masa-Hiko) Cremona transformations and degrees of period maps for $K3$ surfaces with ordinary double points. **89k:14067**
Peters, C. A. M. Some remarks about I. Reider's article: "On the infinitesimal Torelli theorem for certain irregular surfaces of general type" [Math. Ann. **280** (1988), no. 2, 285–302; MR 89c:14060]. **89m:14022**
Reider, Igor On the infinitesimal Torelli theorem for certain irregular surfaces of general type. **89c:14060**
— *see also* **Peters, C. A. M., 89m:14022**
Saito, Masa-Hiko (*with* Shimizu, Yuji; Usui, Sampei) Variation of mixed Hodge structure and the Torelli problem. **89j:32037**
— *see also* **Morrison, David R., 89k:14067**
Shimizu, Yuji *see* **Saito, Masa-Hiko; et al., 89j:32037**
Usui, Sampei Degeneration of Kunev surfaces. II. **89b:14056**
— *see also* **Saito, Masa-Hiko; et al., 89j:32037**
Wehler, Joachim Infinitesimal Torelli theorem. **89k:32044**
Weintraub, Steven H. *see* **Kirwan, F. C.; et al., 89j:32034**

14J17 Singularities of surfaces

Artin, M. Lipman's proof of resolution of singularities for surfaces. (*see* **89b:14029**)
Blass, Piotr *see* **Lang, Jeffrey, 89f:14036**
Cano, F. (*with* Piedra Sánchez, Ramón) Characteristic polygon of surface singularities. **89c:14051**
Lang, Jeffrey (*with* Blass, Piotr) A method for computing the kernel of a map of divisor classes of local rings in characteristic $p \neq 0$. **89f:14036**
Piedra Sánchez, Ramón *see* **Cano, F., 89c:14051**
Ronga, Felice On the singularities of the surface reciprocal to a generic surface in projective space. **89m:14019**
Tomaru, Tadashi On a class of normal surface singularities determined by Weierstrass points on algebraic curves. **89k:14060**
Wunram, Jürgen Reflexive modules on quotient surface singularities. **89g:14029**

Items with secondary classifications in 14J17

Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**
Gario, Paola Histoire de la résolution des singularités des surfaces algébriques (une discussion entre C. Segre et P. del Pezzo). [History of the resolution of singularities of algebraic surfaces (a discussion between C. Segre and P. del Pezzo)] **89d:01039**
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(del Pezzo, P.) *see* **Gario, Paola, 89d:01039**
Runge, Bernhard Quasihomogeneous singularities. **89k:14002**
Sakai, Fumio Classification of normal surfaces. **89d:14053**
— Ruled fibrations on normal surfaces. **89f:14034**
(Segre, C.) *see* **Gario, Paola, 89d:01039**
Shastri, A. R. Divisors with finite local fundamental group on a surface. **89h:14004**
Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**
Wahl, Jonathan The Jacobian algebra of a graded Gorenstein singularity. **89a:14042**
— Deformations of quasihomogeneous surface singularities. **89j:14002**
Yoshino, Yuji (*with* Kawamoto, Takuji) The fundamental module of a normal local domain of dimension 2. **89h:13033**
Zhang, De-Qi Logarithmic del Pezzo surfaces of rank one with contractible boundaries. **89k:14059**

14J20 Arithmetic ground fields [see also 11Dxx, 14Gxx]

Items with secondary classifications in 14J20

Bremner, A. On Euler's quartic surface. **89j:11026**
— On diagonal cubic surfaces. **89k:11013**
— The rational cuboid and a quartic surface. **89c:11041**
Colliot-Thélène, J.-L. Surfaces cubiques diagonales. [Diagonal cubic surfaces] **89i:11068**
— (*with* Kanevsky, Dimitri; Sansuc, Jean-Jacques) Arithmétique des surfaces cubiques diagonales. [Arithmetic of diagonal cubic surfaces] **89g:11051**
Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**
Franke, Jens (*with* Manin, Yu. I.; Tschinkel, Yuri) Rational points of bounded height on Fano varieties. **89m:11060**
van der Geer, Gerard ★ Hilbert modular surfaces. **89c:11073**
Kanevsky, Dimitri Application of the conjecture on the Manin obstruction to various Diophantine problems. **89b:11032**
— *see also* **Colliot-Thélène, J.-L.; et al., 89g:11051**
Koehl, Jürgen ★ Algebraische Zykel auf Hilbertschen Modulflächen. (German) [Algebraic cycles on Hilbert modular surfaces] **89a:11062**
Manin, Yu. I. *see* **Franke, Jens; et al., 89m:11060**
Ramakrishnan, Dinakar Arithmetic of Hilbert–Blumenthal surfaces. **89f:11073**
Saito, Takeshi Conductor, discriminant, and the Noether formula of arithmetic surfaces. **89f:14024**
Sansuc, Jean-Jacques Principe de Hasse, surfaces cubiques et intersections de deux quadriques. [The Hasse principle, cubic surfaces and intersections of two quadrics] **89f:11084**
— *see also* **Colliot-Thélène, J.-L.; et al., 89g:11051**
Tschinkel, Yuri *see* **Franke, Jens; et al., 89m:11060**
Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**
Voskresenskiĭ, V. E. Exact parametrization of normed surfaces. (Russian) (*see* **89f:11004**)

14J25 Special surfaces, general

Barth, Wolf Paul Affine parts of abelian surfaces as complete intersections of four quadrics. **89b:14053**
Beauville, Arnaud Annulation du H^1 et systèmes paracanoniques sur les surfaces. [Vanishing of H^1 and paracanonical systems on surfaces] **89i:14032**
Beltrametti, Mauro (*with* Sommese, Andrew John) On generically polarized Gorenstein surfaces of sectional genus two. **89g:14030**
Biancofiore, Aldo On the degree of the discriminant locus of a smooth sectional surface of a $(n+2)$-fold with nonnegative Kodaira dimension. **89c:14052**
Ciliberto, Ciro (*with* Harris, Joseph Daniel; Miranda, Rick) General components of the Noether-Lefschetz locus and their density in the space of all surfaces. **89k:14061**
Halanay, Elena Normal surfaces of degree 5 in $\mathbf{P}^n$. **89k:14062**
Harris, Joseph Daniel *see* **Ciliberto, Ciro; et al., 89k:14061**
Herzog, Bernd Shokurov's nonvanishing theorem for normal surfaces. **89a:14041**
Ionescu, Paltin Ample and very ample divisors on surfaces. **89f:14037**
Lanteri, Antonio Complex projective surfaces with hyperelliptic hyperplane sections. **89m:14020**
Maĭorov, A. V. Some types of elliptic ruled surfaces in $\mathbf{P}_5$. (Russian) **89h:14029**
Miranda, Rick *see* **Ciliberto, Ciro; et al., 89k:14061**
Oka, Mutsuo[1] Examples of algebraic surfaces with $q = 0$ and $p_g \leq 1$ which are locally hypersurfaces. **89c:14053**
Reider, Igor Vector bundles of rank 2 and linear systems on algebraic surfaces. **89e:14038**
Serrano, Fernando The adjunction mappings and hyperelliptic divisors on a surface. **89c:14054**
Sommese, Andrew John *see* **Beltrametti, Mauro, 89g:14030**
Wehler, Joachim $K3$-surfaces with Picard number 2. **89b:14054**
Xiao, Gang Irregularity of surfaces with a linear pencil. **89c:14055**

Items with secondary classifications in 14J25

Barthel, Gottfried (*with* Hirzebruch, Friedrich; Höfer, Thomas) ★ Geradenkonfigurationen und Algebraische Flächen. (German) [Line configurations and algebraic surfaces] **89a:14045**
Beltrametti, Mauro (*with* Lanteri, Antonio; Palleschi, Marino) Algebraic surfaces containing an ample divisor of arithmetic genus two. **89e:14037**
Bertolini, Marina (*with* Turrini, Cristina) On the automorphisms of some line congruences in $\mathbf{P}^3$. **89k:14088**
Blass, Piotr (*with* Lang, Jeffrey) Surfaces de Zariski factorielles. (English summary) [Factorial Zariski surfaces] **89f:14032**
— *see also* **Lang, Jeffrey, 89d:14048**
Brodmann, M. A bound for the first cohomology of a projective surface. **89e:14019**
Green, Paul S. (*with* Hübsch, Tristan) Calabi-Yau hypersurfaces in products of semi-ample surfaces. **89c:14065**
Hashimoto, Naoki Deformations of some algebraic surfaces with $q = 0$ and $p_g = 1$. **89f:14035**
Hirzebruch, Friedrich *see* **Barthel, Gottfried; et al., 89a:14045**
Höfer, Thomas *see* **Barthel, Gottfried; et al., 89a:14045**
Hübsch, Tristan *see* **Green, Paul S., 89c:14065**
Hulek, K. (*with* Lange, Herbert) The Hilbert modular surface for the ideal $(\sqrt{5})$ and the Horrocks-Mumford bundle. **89d:14057**
Lang, Jeffrey The factoriality of Zariski rings. **89d:14047**
— (*with* Blass, Piotr) Locally factorial generic Zariski surfaces are factorial. **89d:14048**
— *see also* **Blass, Piotr, 89f:14032**
Lange, Herbert Jacobian surfaces in $\mathbf{P}_4$. **89a:14061**
— *see also* **Hulek, K., 89d:14057**
Lanteri, Antonio (*with* Palleschi, Marino) Remarks on recent work by Sommese. **89a:14052**
— *see also* **Beltrametti, Mauro; et al., 89e:14037**
Lazarsfeld, Robert A sharp Castelnuovo bound for smooth surfaces. **89d:14007**
Maeda, Hidetoshi On polarized surfaces of sectional genus three. **89h:14027**
Manolache, Nicolae Syzygies of abelian surfaces embedded in $\mathbf{P}^4(\mathbf{C})$. **89c:14021**
Miyanishi, Masayoshi (*with* Tsunoda, S.) Open algebraic surfaces with Kodaira dimension $-\infty$. **89d:14051**
Mostow, G. D. (*with* Yau, Stephen S.-T.) Some surfaces covered by the ball and a problem in finite groups. **89d:32062**
Palleschi, Marino *see* **Lanteri, Antonio, 89a:14052** *and* **Beltrametti, Mauro; et al., 89e:14037**
Romagnoli, Daniela The Galois group of lines in $\mathbf{P}^3$ quadritangential to a surface of degree 8. (Italian. English summary) **89i:14046**
Sakai, Fumio Ruled fibrations on normal surfaces. **89f:14034**
Schneider, Michael Hellmut (*with* Tancredi, Alessandro) Almost-positive vector bundles on projective surfaces. **89e:14018**
Shastri, A. R. Compact structures on $C^* \times C^*$. **89f:32053**
Tancredi, Alessandro *see* **Schneider, Michael Hellmut, 89e:14018**
Tsunoda, S. *see* **Miyanishi, Masayoshi, 89d:14051**
Turrini, Cristina *see* **Bertolini, Marina, 89k:14088**
Ueno, Kenji Compact rigid analytic spaces with special regard to surfaces. **89f:32055**
Voisin, Claire Une précision concernant le théorème de Noether. [A sharpening of Noether's theorem] **89k:14058**
Yau, Stephen S.-T. *see* **Mostow, G. D., 89d:32062**
Zhang, De-Qi Logarithmic del Pezzo surfaces of rank one with contractible boundaries. **89k:14059**

14J26 Rational and ruled surfaces

Bertolini, Marina Multiple coverings of rational scrolls. (Italian. English summary) **89c:14056**
Biancofiore, Aldo (*with* Livorni, Elvira Laura) On the genus of a hyperplane section of a geometrically ruled surface. **89d:14054**
— (*with* Livorni, Elvira Laura) Algebraic ruled surfaces with low sectional genus. **89m:14021**

Coombes, Kevin R. Every rational surface is separably split. **89d:14055**
Ellingsrud, Geir (*with* Peskine, Christian) Sur les surfaces lisses de $\mathbf{P}_4$. [Smooth surfaces in $\mathbf{P}_4$] **89j:14023**
Fahlaoui, Rachid Stabilité du fibré tangent des surfaces de del Pezzo. [Stability of the tangent bundle of del Pezzo surfaces] **89k:14063**
Fischer, Gerd Developable ruled surfaces in complex projective space. **89h:14030**
Gimigliano, A. Notes on Veronesean surfaces. **89b:14055**
Hirschowitz, André Symétries des surfaces rationnelles génériques. [Symmetries of generic rational surfaces] **89k:14064**
Katsura, Toshiyuki Theorem of Lüroth and related topics. **89k:14065**
Livorni, Elvira Laura *see* **Biancofiore, Aldo, 89d:14054** *and* **89m:14021**
Matsuzawa, Jun-ichi Monoidal transformations of Hirzebruch surfaces and Weyl groups of type C. **89f:14038**
Miyanishi, Masayoshi (*with* Zhang, De-Qi) Gorenstein log del Pezzo surfaces of rank one. **89i:14033**
Peskine, Christian *see* **Ellingsrud, Geir, 89j:14023**
Serrano, Fernando A note on quadrics through an algebraic curve. **89d:14056**
Zhang, De-Qi *see* **Miyanishi, Masayoshi, 89i:14033**

Items with secondary classifications in 14J26

Baldisserri, Natalia Nets of conics in a plane over a field of characteristic 2. (Italian. English summary) **89k:14091**
Colliot-Thélène, J.-L. Arithmétique des variétés rationnelles et problèmes birationnels. [Arithmetic of rational varieties and birational problems] **89d:11051**
Coray, D. F. (*with* Tsfasman, M. A.) Arithmetic on singular Del Pezzo surfaces. **89f:11083**
Davis, Edward D. (*with* Geramita, Anthony V.) Bese's very ampleness theorem and punctured complete intersections. **89c:14008**
Edge, W. L. Geometry related to the key del Pezzo surface and the associated mapping of plane cubics. **89f:14058**
Eisenbud, David (*with* Harris, Joseph Daniel) On varieties of minimal degree (a centennial account). **89f:14042**
— (*with* Herzog, Jürgen) The classification of homogeneous Cohen-Macaulay rings of finite representation type. **89c:13012**
Geramita, Anthony V. *see* **Davis, Edward D., 89c:14008**
Harbourne, Brian Automorphisms of $K3$-like rational surfaces. **89f:14044**
— (*with* Lang, William E.) Multiple fibers on rational elliptic surfaces. **89j:14024**
Harris, Joseph Daniel *see* **Eisenbud, David, 89f:14042**
Herzog, Jürgen *see* **Eisenbud, David, 89c:13012**
Holme, Audun (*with* Roberts, Joel) On the embeddings of projective varieties. **89i:14009**
Koitabashi, Masanori Automorphism groups of generic rational surfaces. **89f:14045**
Lang, William E. *see* **Harbourne, Brian, 89j:14024**
Miyanishi, Masayoshi Cyclic étale endomorphisms of rational surfaces. **89j:14007**
Roberts, Joel *see* **Holme, Audun, 89i:14009**
Rudakov, A. N. Markov numbers and exceptional bundles on $\mathbf{P}^2$. **89f:14012**
Tsfasman, M. A. *see* **Coray, D. F., 89f:11083**

14J27 Elliptic surfaces

Harbourne, Brian (*with* Lang, William E.) Multiple fibers on rational elliptic surfaces. **89j:14024**
Lang, William E. *see* **Harbourne, Brian, 89j:14024**
Seiler, Wolfgang K. Deformations of Weierstrass elliptic surfaces. **89k:14066**
Stiller, Peter F. On the classification of elliptic surfaces with $q = 1$. **89c:14057**

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Friedman, Robert David (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. I. **89d:57046**
— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. II. **89d:57047**
Gompf, Robert E. On sums of algebraic surfaces. **89j:57028**
Hambleton, I. (*with* Kreck, Matthias) Smooth structures on algebraic surfaces with cyclic fundamental group. **89a:57043**
Kreck, Matthias *see* **Hambleton, I., 89a:57043**
Lee, Min Ho Mixed cusp forms and holomorphic forms on elliptic varieties. **89d:11035**
Lübke, Martin (*with* Okonek, Christian) Differentiable structures of elliptic surfaces with cyclic fundamental group. **89d:57048**
Morgan, John W. *see* **Friedman, Robert David, 89d:57046** *and* **89d:57047**
Okonek, Christian *see* **Lübke, Martin, 89d:57048**

14J28 $K3$-surfaces and Enriques surfaces

Ambrogio, Elisabetta A relation between the class and the order of a $K3$ surface. (Italian. English summary) **89i:14034**
Beauville, Arnaud (*with* Mérindol, J.-Y.) Sections hyperplanes des surfaces $K3$. [Hyperplane sections of $K3$ surfaces] **89a:14043**
Bertin, José Réseaux de Kummer et surfaces $K3$. [Kummer lattices and $K3$ surfaces] **89e:14039**
Kondō, Shigeyuki Enriques surfaces with finite automorphism groups. **89c:14058**
Mérindol, J.-Y. *see* **Beauville, Arnaud, 89a:14043**
Morrison, David R. (*with* Saito, Masa-Hiko) Cremona transformations and degrees of period maps for $K3$ surfaces with ordinary double points. **89k:14067**
Paranjape, Kapil Abelian varieties associated to certain $K3$ surfaces. **89k:14068**
Saito, Masa-Hiko *see* **Morrison, David R., 89k:14067**

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Ciliberto, Ciro (*with* Harris, Joseph Daniel; Miranda, Rick) On the surjectivity of the Wahl map. **89m:14010**
Gepner, Doron Exactly solvable string compactifications on manifolds of $\mathrm{SU}(N)$ holonomy. **89h:83035**
Gompf, Robert E. On sums of algebraic surfaces. **89j:57028**
Harris, Joseph Daniel *see* **Ciliberto, Ciro; et al., 89m:14010**
Hirschowitz, André Symétries des surfaces rationnelles génériques. [Symmetries of generic rational surfaces] **89k:14064**
Katsura, Toshiyuki A remark on the locus of abelian surfaces of p-rank ≤ 1. **89m:14018**
Kondō, Shigeyuki On the Albanese variety of the moduli space of polarized $K3$ surfaces. **89d:32052**
Mason, Geoffrey Symplectic automorphisms of $K3$-surfaces (after S. Mukai and V. V. Nikulin). **89g:32044**
Matsumoto, Keiji (*with* Sasaki, Takeshi; Yoshida, Masaaki) The period map of a 4-parameter family of $K3$ surfaces and the Aomoto-Gelʹfand hypergeometric function of type $(3, 6)$. **89m:32041**
Miranda, Rick *see* **Ciliberto, Ciro; et al., 89m:14010**
Miyanishi, Masayoshi Projective degenerations of surfaces according to S. Tsunoda. **89k:14021**
Mukai, Shigeru Moduli of vector bundles on $K3$ surfaces and symplectic manifolds. (Japanese) **89h:32057**
— *see also* **Mason, Geoffrey, 89g:32044**
Nikulin, V. V. Discrete reflection groups in Lobachevsky spaces and algebraic surfaces. **89d:11032**
— *see also* **Mason, Geoffrey, 89g:32044**
Nishiguchi, Kenji Degeneration of $K3$ surfaces. **89j:32036**
Reider, Igor Vector bundles of rank 2 and linear systems on algebraic surfaces. **89e:14038**
Sasaki, Takeshi *see* **Matsumoto, Keiji; et al., 89m:32041**
Stienstra, Jan Formal group laws arising from algebraic varieties. **89d:14060**
Usui, Sampei Degeneration of Kunev surfaces. II. **89b:14056**
Wahl, Jonathan The Jacobian algebra of a graded Gorenstein singularity. **89a:14042**
Yoshida, Masaaki *see* **Matsumoto, Keiji; et al., 89m:32041**

14J29 Surfaces of general type

Bartalesi, A. (*with* Catanese, F.) Surfaces with $K^2 = 6$, $\chi = 4$, and with torsion. **89a:14044**
Barthel, Gottfried (*with* Hirzebruch, Friedrich; Höfer, Thomas) ★ Geradenkonfigurationen und Algebraische Flächen. (German) [Line configurations and algebraic surfaces] **89a:14045**
Catanese, F. Canonical rings and "special" surfaces of general type. **89f:14039**
— *see also* **Bartalesi, A., 89a:14044**
Ekedahl, Torsten Canonical models of surfaces of general type in positive characteristic. **89k:14069**
Hirzebruch, Friedrich *see* **Barthel, Gottfried; et al., 89a:14045**
Höfer, Thomas *see* **Barthel, Gottfried; et al., 89a:14045**
Iliev, Valentin On the canonical rings of some Horikawa surfaces. I. **89i:14035**
Livorni, Elvira Laura Some results about a smooth hyperplane section of a 3-fold of nonnegative Kodaira dimension. **89a:14046**
Miranda, Rick On canonical surfaces of general type with $K^2 = 3\chi - 10$. **89c:14059**
Moishezon, B. (*with* Teicher, M.) Galois coverings in the theory of algebraic surfaces. **89h:14031**
Peters, C. A. M. Some remarks about I. Reider's article: "On the infinitesimal Torelli theorem for certain irregular surfaces of general type" [Math. Ann. **280** (1988), no. 2, 285–302; MR 89c:14060]. **89m:14022**
Reider, Igor On the infinitesimal Torelli theorem for certain irregular surfaces of general type. **89c:14060**
— *see also* **Peters, C. A. M., 89m:14022**
Teicher, M. *see* **Moishezon, B., 89h:14031**
Usui, Sampei Degeneration of Kunev surfaces. II. **89b:14056**

Items with secondary classifications in 14J29

Catanese, F. Moduli of algebraic surfaces. **89i:14031**
— (*with* Debarre, Olivier) Surfaces with $K^2 = 2$, $p_g = 1$, $q = 0$. **89m:14017**
Debarre, Olivier *see* **Catanese, F., 89m:14017**
Gompf, Robert E. On sums of algebraic surfaces. **89j:57028**
Gurjar, R. V. (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. I. **89k:14035**
Reider, Igor Vector bundles of rank 2 and linear systems on algebraic surfaces. **89e:14038**
Shastri, A. R. *see* **Gurjar, R. V., 89k:14035**
Tsuji, Hajime Existence and degeneration of Kähler-Einstein metrics on minimal algebraic varieties of general type. **89e:53075**
Xiao, Gang Irregularity of surfaces with a linear pencil. **89c:14055**

14J30 Special 3-folds [see also 14E05]

Candelas, P. (*with* Dale, A. M.; Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. **89e:14040**
Conte, A. (*with* Murre, J. P.) On the definition and on the nature of the singularities of Fano threefolds. **89b:14057**
Cutkosky, Steven D. Elementary contractions of Gorenstein threefolds. **89k:14070**
Dale, A. M. *see* **Candelas, P.; et al., 89e:14040**
Fletcher, A. R. Contributions to Riemann-Roch on projective 3-folds with only canonical singularities and applications. **89h:14032**
Iliev, A. I. Threefolds with a numerically effective canonical class of numerical dimension 1. **89g:14031**
Lanteri, Antonio (*with* Turrini, Cristina) Projective threefolds of small class. **89a:14047**
Lütken, C. A. *see* **Candelas, P.; et al., 89e:14040**
Miyaoka, Yoichi Abundance conjecture for 3-folds: case $\nu = 1$. **89m:14023**
Mori, Shigefumi Flip theorem and the existence of minimal models for 3-folds. **89a:14048**
Murre, J. P. *see* **Conte, A., 89b:14057**
Negri, Antonella On the rationality of the cubic complex containing eight planes. (Italian. English summary) **89c:14061**
Reid, Miles Tendencious survey of 3-folds. **89h:14033**
Schimmrigk, Rolf *see* **Candelas, P.; et al., 89e:14040**
Schoen, Chad On fiber products of rational elliptic surfaces with section. **89c:14062**

Shokurov, V. V. Extremal contractions of three-dimensional algebraic varieties. (Russian) **89e:14041**
Tian, Gang (*with* Yau, S.-T.) Three-dimensional algebraic manifolds with $C_1 = 0$ and $\chi = -6$. (*see* **89m:81001**)
Turrini, Cristina *see* **Lanteri, Antonio, 89a:14047**
Umemura, Hiroshi Minimal rational threefolds. II. **89f:14040**
Yau, S.-T. *see* **Tian, Gang, (89m:81001)**

Items with secondary classifications in 14J30

Adimoolam, C. Calabi-Yau manifolds. **89f:32054**
Aspinwall, P. S. (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Searching for three-generation Calabi-Yau manifolds. **89e:53071**
Beltrametti, Mauro (*with* Sommese, Andrew John) A criterion for a variety to be a cone. **89f:14041**
Candelas, P. (*with* Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds. **89g:53102**
Clemens, Herbert Curves on higher-dimensional complex projective manifolds. **89e:14007**
D'Souza, Harry Threefolds whose hyperplane sections are elliptic surfaces. **89i:14028**
Ewald, Günter Blow-ups of smooth toric 3-varieties. **89b:14065**
Green, Paul S. (*with* Hübsch, Tristan) Calabi-Yau hypersurfaces in products of semi-ample surfaces. **89c:14065**
Greene, Brian R. *see* **Aspinwall, P. S.; et al., 89e:53071**
Hübsch, Tristan *see* **Green, Paul S., 89c:14065**
Kawamata, Yujiro Crepant blowing-up of 3-dimensional canonical singularities and its application to degenerations of surfaces. **89d:14023**
Kirklin, Kelley H. *see* **Aspinwall, P. S.; et al., 89e:53071**
Lee, Ronnie (*with* Weintraub, Steven H.) Topology of the Siegel spaces of degree two and their compactifications. **89c:32071**
Lütken, C. A. *see* **Candelas, P.; et al., 89g:53102**
Miron, Paul *see* **Aspinwall, P. S.; et al., 89e:53071**
Miyaoka, Yoichi On the Kodaira dimension of minimal threefolds. **89g:14028**
Peternell, Thomas (*with* Schneider, Michael Hellmut) Compactifications of $\mathbf{C}^3$. I. **89g:32040**
Ross, Graham G. Discrete symmetries and the complex structure of Calabi-Yau manifolds. **89c:32072**
Rusjan, Edmond (*with* Senjanović, Goran) Honest symmetries and complex structures of the three-generation superstring model. **89i:53057**
Schimmrigk, Rolf A new construction of a three-generation Calabi-Yau manifold. **89e:53072**
— *see also* **Candelas, P.; et al., 89g:53102**
Schneider, Michael Hellmut *see* **Peternell, Thomas, 89g:32040**
Senjanović, Goran *see* **Rusjan, Edmond, 89i:53057**
Sommese, Andrew John *see* **Beltrametti, Mauro, 89f:14041**
Weintraub, Steven H. *see* **Lee, Ronnie, 89c:32071**
Werner, Jürgen ★ Kleine Auflösungen spezieller dreidimensionaler Varietäten. (German) [Small resolutions of special three-dimensional varieties] **89k:14018**
Yau, S.-T. *see* **Yüan, Hsi Shih, 89c:53031**
Yüan, Hsi Shih (*with* Yau, S.-T.) On Ricci flat 3-fold. **89c:53031**

14J35 Special 4-folds [see also 14E05]

Beltrametti, Mauro Contractions of nonnumerically effective extremal rays in dimension 4. **89c:14064**
Fania, Maria Lucia (*with* Sato, Ei-ichi; Sommese, Andrew John) On the structure of 4-folds with a hyperplane section which is a $\mathbf{P}^1$ bundle over a surface that fibres over a curve. **89a:14049**
Mori, Shigefumi (*with* Morrison, David R.; Morrison, Ian) On four-dimensional terminal quotient singularities. **89i:14036**
Morrison, David R. *see* **Mori, Shigefumi; et al., 89i:14036**
Morrison, Ian *see* **Mori, Shigefumi; et al., 89i:14036**
Sato, Ei-ichi *see* **Fania, Maria Lucia; et al., 89a:14049**
Sommese, Andrew John *see* **Fania, Maria Lucia; et al., 89a:14049**
Wilson, P. M. H. Fano fourfolds of index greater than one. **89b:14058**
Wiśniewski, Jarosław A. Ruled Fano 4-folds of index 2. **89g:14032**

14J40 Special *n*-folds

Beltrametti, Mauro On *d*-folds whose canonical bundle is not numerically effective, according to Mori and Kawamata. (Italian summary) **89c:14063**
— (*with* Sommese, Andrew John) A criterion for a variety to be a cone. **89f:14041**
Eisenbud, David (*with* Harris, Joseph Daniel) On varieties of minimal degree (a centennial account). **89f:14042**
Green, Paul S. (*with* Hübsch, Tristan) Calabi-Yau hypersurfaces in products of semi-ample surfaces. **89c:14065**
Harris, Joseph Daniel *see* **Eisenbud, David, 89f:14042**
Holme, Audun On the classification of smooth projective subvarieties of $\mathbf{P}^N$. **89c:14066**
Hübsch, Tristan *see* **Green, Paul S., 89c:14065**
Idà, Monica A remark on the algebraic deformations of some complex structures. (Russian summary) **89a:14050**
Knop, Friedrich (*with* Menzel, Gisela) Duale Varietäten von Fahnenvarietäten. [Dual varieties of flag varieties] **89a:14051**
Lanteri, Antonio (*with* Palleschi, Marino) Remarks on recent work by Sommese. **89a:14052**
— (*with* Palleschi, Marino) Projective manifolds containing many rational curves. **89c:14067**
L'vovskiĭ, S. M. Extension of varieties defined by quadratic equations. **89g:14033**
Menzel, Gisela *see* **Knop, Friedrich, 89a:14051**
Palleschi, Marino *see* **Lanteri, Antonio, 89a:14052** *and* **89c:14067**
Pukhlikov, A. V. Birational automorphisms of a dual space and a dual quadric. **89f:14043**
Sommese, Andrew John *see* **Beltrametti, Mauro, 89f:14041**

Items with secondary classifications in 14J40

Ådlandsvik, Bjørn Joins and higher secant varieties. **89j:14030**
Fujita, Takao On polarized manifolds whose adjoint bundles are not semipositive. **89d:14006**
Kawamata, Yujiro (*with* Matsuda, Katsumi; Matsuki, Kenji) Introduction to the minimal model problem. **89e:14015**
Kleinschmidt, Peter A classification of toric varieties with few generators. **89f:14056**
Matsuda, Katsumi *see* **Kawamata, Yujiro; et al., 89e:14015**
Matsuki, Kenji *see* **Kawamata, Yujiro; et al., 89e:14015**
McConnell, Mark The rational homology of toric varieties is not a combinatorial invariant. **89i:14042**
Miyaoka, Yoichi Deformations of a morphism along a foliation and applications. **89e:14011**
— The Chern classes and Kodaira dimension of a minimal variety. **89k:14022**
Mori, Shigefumi Classification of higher-dimensional varieties. **89a:14040**
Nakayama, Noboru The singularity of the canonical model of compact Kähler manifolds. **89g:32045**
Peternell, Thomas (*with* Schneider, Michael Hellmut) Compactifications of $\mathbf{C}^3$. I. **89g:32040**
Schneider, Michael Hellmut *see* **Peternell, Thomas, 89g:32040**
Sommese, Andrew John Ample divisors on Gorenstein varieties. **89c:14006**
Tango, Hiroshi On a 5-dimensional nonsingular rational subvariety of Grassmann variety $G_r(5,1)$. I. (Japanese. English summary) **89k:14030**
Tsuji, Hajime A characterization of ball quotients with smooth boundary. **89k:32054**
— An inequality of Chern numbers of Bogomolov type for minimal varieties. **89k:14023**

14J50 Automorphisms of surfaces and higher-dimensional special varieties

Harbourne, Brian Automorphisms of $K3$-like rational surfaces. **89f:14044**
Koitabashi, Masanori Automorphism groups of generic rational surfaces. **89f:14045**

Items with secondary classifications in 14J50

Bertolini, Marina (*with* Turrini, Cristina) On the automorphisms of some line congruences in $\mathbf{P}^3$. **89k:14088**
Hirschowitz, André Symétries des surfaces rationnelles génériques. [Symmetries of generic rational surfaces] **89k:14064**
Kondō, Shigeyuki Enriques surfaces with finite automorphism groups. **89c:14058**
Mason, Geoffrey Symplectic automorphisms of $K3$-surfaces (after S. Mukai and V. V. Nikulin). **89g:32044**
Morrison, David R. (*with* Saito, Masa-Hiko) Cremona transformations and degrees of period maps for $K3$ surfaces with ordinary double points. **89k:14067**
(**Mukai, Shigeru**) *see* **Mason, Geoffrey, 89g:32044**
(**Nikulin, V. V.**) *see* **Mason, Geoffrey, 89g:32044**
Pukhlikov, A. V. Birational automorphisms of a dual space and a dual quadric. **89f:14043**
Rusjan, Edmond (*with* Senjanović, Goran) A superstring model of four generations. **89k:14087**
Saito, Masa-Hiko *see* **Morrison, David R., 89k:14067**
Senjanović, Goran *see* **Rusjan, Edmond, 89k:14087**
Turrini, Cristina *see* **Bertolini, Marina, 89k:14088**
Wehler, Joachim $K3$-surfaces with Picard number 2. **89b:14054**

14J99 None of the above, but in this section

Items with secondary classifications in 14J99

Livné, Ron The average distribution of cubic exponential sums. **89f:11116**
Tian, Gang (*with* Yau, S.-T.) Existence of Kähler-Einstein metrics on complete Kähler manifolds and their applications to algebraic geometry. (*see* **89m:81001**)
Yau, S.-T. *see* **Tian, Gang, (89m:81001)**
Zaĭdenberg, M. G. Stability of hyperbolic embeddedness and the construction of examples. **89f:32047**

14Kxx Abelian varieties and schemes

14K05 Algebraic theory

Breen, L. Biextensions alternées. [Alternating biextensions] **89b:14059**
van Geemen, Bert Schottky-Jung relations and vectorbundles on hyperelliptic curves. **89f:14046**
van der Geer, Gerard Note on abelian schemes of level three. **89a:14053**
Hazama, Fumio Branching rules and Hodge cycles on certain abelian varieties. **89e:14042**
— Geometric analogue of the Mumford-Tate conjecture for stably nondegenerate abelian varieties (a note on Mustafin's paper). **89i:14037**
Lange, Herbert Equations for endomorphisms of abelian varieties. **89c:14068**
Milne, J. S. Abelian varieties. (*see* **89b:14029**)
Oort, Frans (*with* van der Put, Marius) A construction of an abelian variety with a given endomorphism algebra. **89j:14025**
van der Put, Marius *see* **Oort, Frans, 89j:14025**

Items with secondary classifications in 14K05

Faber, Carel Prym varieties of triple cyclic covers. **89f:14026**
Gordon, B. Brent Algebraically defined subspaces in the cohomology of a Kuga fiber variety. **89b:11048**
Paranjape, Kapil Abelian varieties associated to certain $K3$ surfaces. **89k:14068**

14K07 Elliptic curves, one-dimensional theory

Dem′yanenko, V. A. Sharp estimates for the torsion of curves of genus one. (Russian) **89a:14054**
van der Marel, B. On the Tate-matrix. **89h:14034**

Items with secondary classifications in 14K07

Brownawell, W. Dale Large transcendence degree revisited. I. Exponential and non-CM cases. **89h:11042**
Cremona, J. E. Addendum and errata: "Hyperbolic tessellations, modular symbols, and elliptic curves over complex quadratic fields" [Compositio Math. **51** (1984), no. 3, 275–324; MR 85j:11063]. **89a:11058**
Dem′yanenko, V. A. The number of divisor classes of elliptic fields. (Russian) **89k:11042**
Freund, Peter G. O. *see* **Rabin, Jeffrey M., 89i:32048**
Frey, Gerhard On the Selmer group of twists of elliptic curves with **Q**-rational torsion points. **89k:11043**
Gerzhoĭ, P. I. (*with* Panchishkin, A. A.) A finiteness criterion for the number of rational points for twisted Weil elliptic curves. (Russian) **89b:11053**
Ishii, Hidenori The nonexistence of elliptic curves with everywhere good reduction over certain quadratic fields. **89j:11054**
Kenku, M. A. (*with* Momose, F.) Torsion points on elliptic curves defined over quadratic fields. **89c:11091**
Koblitz, Neal I. ★ Введение в эллиптические кривые и модулярные формы. (Russian) [Introduction to elliptic curves and modular forms] **89d:11047**
Kolyvagin, V. A. Finiteness of $E(\mathbf{Q})$ and $Ш(E,\mathbf{Q})$ for a subclass of Weil curves. **89m:11056**
Lehman, J. Larry Rational points on elliptic curves with complex multiplication by the ring of integers in $\mathbf{Q}(\sqrt{-7})$. **89a:11059**
Lenstra, H. W., Jr. Factoring integers with elliptic curves. **89g:11125**
(Manin, Yu. I.) *see* **Koblitz, Neal I., 89d:11047**
Mestre, Jean-François Courbes hyperelliptiques à multiplications réelles. (English summary) [Hyperelliptic curves with real multiplication] **89k:11106**
Momose, F. *see* **Kenku, M. A., 89c:11091**
(Ogievetskiĭ, O. V.) *see* **Koblitz, Neal I., 89d:11047**
Panchishkin, A. A. *see* **Gerzhoĭ, P. I., 89b:11053**
Parish, James L. A family of abelian varieties rationally isogenous to no Jacobian. **89k:11047**
Patterson, Richard R. Parametric cubics as algebraic curves. **89k:14043**
Pinch, R. G. E. Simultaneous Pellian equations. **89a:11029**
Rabin, Jeffrey M. (*with* Freund, Peter G. O.) Supertori are algebraic curves. **89i:32048**
Silverman, Joseph H. Elliptic curves of bounded degree and height. **89i:11063**
Stevens, Glenn On the periods of modular elliptic curves. **89i:11064**
Zimmer, Horst Günter ★ Zur Arithmetik der elliptischen Kurven. (German) [On the arithmetic of elliptic curves] **89h:11024**

14K10 Algebraic moduli, classification

Barth, Wolf Paul Abelian surfaces with $(1,2)$-polarization. **89i:14038**
Debarre, Olivier Annulation de thêtaconstantes sur les variétés abéliennes de dimension quatre. (English summary) [Vanishing thetanulls on 4-dimensional abelian varieties] **89a:14055**
— Sur les variétés abéliennes dont le diviseur theta est singulier en codimension 3. [Abelian varieties whose theta divisor is singular in codimension 3] **89f:14047**
Oort, Frans Lifting algebraic curves, abelian varieties, and their endomorphisms to characteristic zero. **89c:14069**
Peters, C. A. M. On Arakelov's finiteness theorem for higher-dimensional varieties. **89e:14043**
Pirola, Gian Pietro Base number theorem for abelian varieties. An infinitesimal approach. **89k:14071**
Silverberg, Alice Mordell-Weil groups of generic abelian varieties in the unitary case. **89f:14048**
Verra, Alessandro The fibre of the Prym map in genus three. **89a:14056**

Items with secondary classifications in 14K10

Arima, Satoshi (*with* Yamawaki, Noriaki) Actions of theta groups for theta divisors on Jacobian surfaces. **89f:14025a**
— (*with* Yamawaki, Noriaki) Errata: "Actions of theta groups for theta divisors on Jacobian surfaces". **89f:14025b**
Beauville, Arnaud L'approche géométrique du problème de Schottky. [The geometric approach to the Schottky problem] **89d:14040**
— (*with* Debarre, Olivier) Sur le problème de Schottky pour les variétés de Prym. [On the Schottky problem for Prym varietes] **89m:14014**
Chai, Ching-Li Siegel moduli schemes and their compactifications over **C**. (*see* **89b:14029**)
Debarre, Olivier *see* **Beauville, Arnaud, 89m:14014**
Katsura, Toshiyuki A remark on the locus of abelian surfaces of p-rank ≤ 1. **89m:14018**
Li, Ke Zheng Classification of supersingular abelian varieties. **89k:14033**
Mukai, Shigeru Fourier functor and its application to the moduli of bundles on an abelian variety. **89k:14026**
Silverberg, Alice Cohomology of fiber systems and Mordell-Weil groups of abelian varieties. **89c:11098**
Yamawaki, Noriaki *see* **Arima, Satoshi, 89f:14025a** *and* **89f:14025b**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 14Gxx]

Silverman, Joseph H. Integral points on abelian surfaces are widely spaced. **89c:14070**

Items with secondary classifications in 14K15

Abdulali, Salman Zeta functions of Kuga fiber varieties. **89k:11048**
Bosch, S. Néron models. **89a:11060**
(Cornell, Gary) *see* **Arithmetic geometry, 89b:14029**
David, Sinnou Fonctions thêta et points de torsion des variétés abéliennes. (English summary) [Theta functions and torsion points of abelian varieties] **89b:11047**
Dorman, David R. Special values of the elliptic modular function and factorization formulae. **89k:11026**
Faltings, Gerd Finiteness theorems for abelian varieties over number fields. (*see* **89b:14029**)
Frey, Gerhard On the Selmer group of twists of elliptic curves with **Q**-rational torsion points. **89k:11043**
Gordon, B. Brent Topological and algebraic cycles in Kuga-Shimura varieties. **89j:11059**
Hindry, Marc Autour d'une conjecture de Serge Lang. [On a conjecture of Serge Lang] **89k:11046**
Katsura, Toshiyuki A remark on the locus of abelian surfaces of p-rank ≤ 1. **89m:14018**
Masser, D. W. Small values of heights on families of abelian varieties. **89g:11048**
Mestre, Jean-François Courbes hyperelliptiques à multiplications réelles. (English summary) [Hyperelliptic curves with real multiplication] **89k:11106**
(Shipz, Edward) *see* **Faltings, Gerd,** (**89b:14029**)
Silverman, Joseph H. Computing heights on elliptic curves. **89d:11049**
— *see also* **Arithmetic geometry, 89b:14029**
Tankeev, S. G. Cycles on simple abelian varieties of prime dimension over number fields. **89k:14039**
Wingberg, Kay On the rational points of abelian varieties over $\mathbf{Z}_p$-extensions of number fields. **89c:11093**
Wolfart, Jürgen Werte hypergeometrischer Funktionen. (English summary) [Values of hypergeometric functions] **89g:11063**
Wüstholz, G. Algebraic groups, Hodge theory, and transcendence. **89e:11041**

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Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Conference:
  Arithmetic geometry ★ Arithmetic geometry. **89b:14029**
Storrs, Conn. ★ Arithmetic geometry. **89b:14029**

14K20 Analytic theory; abelian integrals and differentials

Bost, J.-B. (*with* Mestre, Jean-François) Moyenne arithmético-géométrique et périodes des courbes de genre 1 et 2. [Arithmetic-geometric mean and periods of curves of genus 1 and 2] **89k:14072**
Mestre, Jean-François *see* **Bost, J.-B., 89k:14072**
Murty, V. Kumar The Hodge group of an abelian variety. **89k:14073**
Persson, Ulf An introduction to the geography of surfaces of general type. **89a:14057**
Plá, Héctor Approximation of solutions of a differential system on algebraic curves. (Spanish. English summary) **89k:14074a**
— Erratum: "Approximation of solutions of a differential system on algebraic curves". **89k:14074b**
van der Put, Marius (*with* Reversat, M.) Fibrés vectoriels homogènes sur les variétés abéliennes qui sont des tores analytiques (rigides). (English summary) [Homogeneous vector bundles over abelian varieties that are (rigid) analytic tori] **89a:14058**
Reversat, M. Homogeneous vector bundles on some abelian varieties. **89a:14059**
— *see also* **van der Put, Marius, 89a:14058**
Rosen, Michael Abelian varieties over **C**. (*see* **89b:14029**)

Items with secondary classifications in 14K20

Bardelli, Fabio (*with* Verdi, Luisella) On osculating cones and the Riemann-Kempf singularity theorem for hyperelliptic curves, trigonal curves, and smooth plane quintics. **89b:14045**
Barth, Wolf Paul Affine parts of abelian surfaces as complete intersections of four quadrics. **89b:14053**
Bershadskiĭ, M. A. (*with* Radul, A.) Fermionic fields on Z_N-curves. **89h:81167**
— The loop measure over supermoduli space. **89d:81086**
Chang, Shau-Jin (*with* Friedberg, R.) Elliptical billiards and Poncelet's theorem. **89j:58043**
Dijkgraaf, Robbert (*with* Verlinde, Erik; Verlinde, Herman) $C = 1$ conformal field theories on Riemann surfaces. **89c:81112**
Drachman, B. (*with* van Gils, S. A.; Zhang, Zhi Fen) Abelian integrals for quadratic vector fields. **89h:34028**
Friedberg, R. *see* **Chang, Shau-Jin, 89j:58043**
van Gils, S. A. *see* **Drachman, B.; et al., 89h:34028**
McArthur, I. N. Line integrals on super-Riemann surfaces. **89m:58014**
Natanzon, S. M. Nonsingular finite-gap two-dimensional Schrödinger operators and Prymians of real curves. **89g:58094**
Plá, Héctor Twisted differential equations with regular singular points. (Spanish. English summary) **89e:14009**
Radul, A. *see* **Bershadskiĭ, M. A., 89h:81167**
Teixidor i Bigas, Montserrat Inversion of abelian integrals. **89k:14053**
Tretkoff, Marvin Picard-Fuchs differential equations for the quadratic periods of abelian integrals of the first kind. **89b:14013**
Verdi, Luisella *see* **Bardelli, Fabio, 89b:14045**
Verlinde, Erik *see* **Dijkgraaf, Robbert; et al., 89c:81112**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 89c:81112**
Zak, F. L. Theorems on tangents for submanifolds of complex tori. **89f:32017**
Zhang, Zhi Fen *see* **Drachman, B.; et al., 89h:34028**

14K22 Complex multiplication [see also 11G15]

Hulek, K. (*with* Lange, Herbert) The Hilbert modular surface for the ideal $(\sqrt{5})$ and the Horrocks-Mumford bundle. **89d:14057**
Lange, Herbert *see* **Hulek, K., 89d:14057**

Items with secondary classifications in 14K22

Brownawell, W. Dale (*with* Tubbs, Robert) Large transcendence degree revisited. II. The CM case. **89h:11043**
Deninger, Ch. (*with* Wingberg, Kay) On the Beĭlinson conjectures for elliptic curves with complex multiplication. **89g:11045**

Dodson, B. On the Mumford-Tate group of an abelian variety with complex multiplication. **89e:11034**

Dorman, David R. Special values of the elliptic modular function and factorization formulae. **89k:11026**

Gillard, Roland Relations monomiales entre périodes p-adiques. [Monomial relations between p-adic periods] **89m:11058**

Karel, Martin L. Special values of Hilbert modular functions. **89d:11041**

Reimann, Harry (*with* Zink, Thomas) Der Dieudonnémodul einer polarisierten abelschen Mannigfaltigkeit vom CM-Typ. [The Dieudonné module of a polarized abelian variety of CM-type] **89i:11066**

Rubin, Karl Tate-Shafarevich groups and L-functions of elliptic curves with complex multiplication. **89a:11065**

Schappacher, Norbert ★ Periods of Hecke characters. **89h:11020**

de Shalit, Ehud ★ Iwasawa theory of elliptic curves with complex multiplication. **89g:11046**

Silverberg, Alice Torsion points on abelian varieties of CM-type. **89i:11065**

— Mordell-Weil groups of generic abelian varieties in the unitary case. **89f:14048**

Tubbs, Robert *see* **Brownawell, W. Dale, 89h:11043**

Wingberg, Kay *see* **Deninger, Ch., 89g:11045**

Zink, Thomas *see* **Reimann, Harry, 89i:11066**

14K25 Theta functions

Arbarello, E. Fay's trisecant formula and a characterization of Jacobian varieties. **89b:14060**

Barsotti, Iacopo Theta functions and differential equations. (Italian. English summary) **89d:14058**

Grant, David A generalization of Jacobi's derivative formula to dimension two. **89m:14024**

Gunning, R. C. On theta functions for Jacobi varieties. **89b:14061**

Levin, A. M. Supersymmetric elliptic and modular functions. **89j:14026**

Lin, Ts'ung Yüan Identities arising from theta transformation formula. **89g:14034**

(Manin, D. Yu.) *see* **Mumford, David, 89g:14035**

(Manin, Yu. I.) *see* **Mumford, David, 89g:14035**

Mumford, David ★ Лекции о тэта-функциях. (Russian) [Lectures on theta-functions] **89g:14035**

(Shiota, Takahiro) *see* **Mumford, David, 89g:14035**

Smirnov, A. O. A matrix analogue of a theorem of Appell and reductions of multidimensional Riemann theta-functions. **89f:14049**

(Umemura, Hiroshi) *see* **Mumford, David, 89g:14035**

Items with secondary classifications in 14K25

Arbarello, E. Periods of abelian integrals, theta functions, and differential equations of KdV type. **89g:14019**

Beauville, Arnaud L'approche géométrique du problème de Schottky. [The geometric approach to the Schottky problem] **89d:14040**

— (*with* Debarre, Olivier) Sur le problème de Schottky pour les variétés de Prym. [On the Schottky problem for Prym varietes] **89m:14014**

— Le problème de Schottky et la conjecture de Novikov. [The Schottky problem and Novikov's conjecture] **89e:14029**

— Le problème de Schottky: une introduction. [The Schottky problem: an introduction] **89d:14041**

Belavin, A. A. (*with* Knizhnik, V. G.; Morozov, A. Yu.; Perelomov, A. M.) Two- and three-loop amplitudes in bosonic string theory. **89h:81165**

Belokolos, E. D. (*with* Ènol′skiĭ, V. Z.) On the expression of the parameters of the solutions of algebraically integrable nonlinear equations in terms of the theta-constant. (Russian) **89b:58086**

Bost, J.-B. Fonctions de Green-Arakelov, fonctions thêta et courbes de genre 2. (English summary) [Green-Arakelov functions, theta functions and curves of genus 2] **89b:11051**

Debarre, Olivier Annulation de thêtaconstantes sur les variétés abéliennes de dimension quatre. (English summary) [Vanishing thetanulls on 4-dimensional abelian varieties] **89a:14055**

— *see also* **Beauville, Arnaud, 89m:14014**

Dubrovin, B. A. Theory of operators and real algebraic geometry. **89j:58045**

— (*with* Natanzon, S. M.) Real theta-function solutions of the Kadomtsev-Petviashvili equation. **89m:58092**

Ènol′skiĭ, V. Z. *see* **Belokolos, E. D., 89b:58086**

Freed, Daniel S. (*with* Vafa, Cumrun) Global anomalies on orbifolds. **89c:58130**

— (*with* Vafa, Cumrun) Comment: "Global anomalies on orbifolds" [Comm. Math. Phys. **110** (1987), no. 3, 349–389; MR 89c:58130]. **89h:58197**

Gavrilov, L. Note on the generalized Hénon-Heiles system. **89m:58154**

van Geemen, Bert Schottky-Jung relations and vectorbundles on hyperelliptic curves. **89f:14046**

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14K30 Picard schemes, higher Jacobians

Hain, Richard M. Higher Albanese manifolds. **89a:14060**

Lange, Herbert Jacobian surfaces in $\mathbf{P}_4$. **89a:14061**

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Carlson, James A. The geometry of the extension class of a mixed Hodge structure. **89b:32036**

Debarre, Olivier Le théorème de Torelli pour les intersections de trois quadriques. [The Torelli theorem for the intersection of three quadrics] **89k:14010**

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14K99 None of the above, but in this section

Items with secondary classifications in 14K99

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Huibregtse, Mark E. Translation by torsion points and rational equivalence of 0-cycles on abelian varieties. **89j:14005**

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Srinivas, V. *see* **Mehta, V. B., 89e:14014**

14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 17B50]

Ditters, E. J. (*with* Hoving, Simen) Sur la composante connexe du module de Tate covariant de la famille des courbes, donnée par l'équation $y^2 = 1 + \mu x^N$. (English summary) [On the connected component of the covariant Tate module of the family of curves given by the equation $y^2 = 1 + \mu x^N$] **89d:14059**

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Shatz, Stephen S. Group schemes, formal groups, and p-divisible groups. (*see* **89b:14029**)

Stienstra, Jan Formal group laws arising from algebraic varieties. **89d:14060**

Zimmermann, Karl Frederic Galois endomorphisms of the torsion subgroup of one-parameter generic formal groups. **89b:14063**

Items with secondary classifications in 14L05

Baker, Andrew Combinatorial and arithmetic identities based on formal group laws. **89f:55012**

Clauwens, F. J. B. J. *K*-theory, λ-rings, and formal groups. **89c:18010**

Kholodov, A. N. Multidimensional two-valued commutative formal groups. **89d:55012**

Reimann, Harry (*with* Zink, Thomas) Der Dieudonnémodul einer polarisierten abelschen Mannigfaltigkeit vom CM-Typ. [The Dieudonné module of a polarized abelian variety of CM-type] **89i:11066**

Stienstra, Jan Formal groups and congruences for *L*-functions. **89e:14020**

Zink, Thomas *see* **Reimann, Harry, 89i:11066**

14L10 Group varieties

Bertrand, Daniel (*with* Philippon, Patrice) Sous-groupes algébriques de groupes algébriques commutatifs. [Algebraic subgroups of commutative algebraic groups] **89i:14039**

Ichikawa, Takashi On algebraic groups of Mumford-Tate type. **89f:14050**

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Items with secondary classifications in 14L10

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14L15 Group schemes

Hanamura, Masaki Structure of birational automorphism groups. I. Nonuniruled varieties. **89f:14051**

Önsiper, Hurşit On generalized Albanese varieties for surfaces. **89i:14040**

Items with secondary classifications in 14L15

Friedlander, Eric M. (*with* Parshall, Brian J.) Limits of infinitesimal group cohomology. **89d:20037**

Önsiper, Hurşit Rigidified Picard functor and extensions of abelian schemes. **89b:14062**

Parshall, Brian J. *see* **Friedlander, Eric M., 89d:20037**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Items with secondary classifications in 14L17

Shudo, Takefumi On strongly exact sequences of cocommutative Hopf algebras. **89c:16012**

14L20 Finite group schemes

Abrashkin, V. A. Galois modules of group schemes of period *p* over the ring of Witt vectors. **89a:14062**

Items with secondary classifications in 14L20

Reimann, Harry (*with* Zink, Thomas) Der Dieudonnémodul einer polarisierten abelschen Mannigfaltigkeit vom CM-Typ. [The Dieudonné module of a polarized abelian variety of CM-type] **89i:11066**

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14L25 Pro-algebraic group schemes

Ryan, John G. Lie algebras and pro-algebraic groups. **89c:14071**

Items with secondary classifications in 14L25

Kuleshov, S. A. Algebraic generators of the group of automorphisms of a polynomial ring over a finitely generated algebra. (Russian) **89c:13026**

14L30 Group actions on varieties or schemes [see also 14D25]

Abeasis, Silvana On a remarkable class of subvarieties of a symmetric variety. **89k:14075**

Akhiezer, D. N. Modality and complexity of the actions of reductive groups. **89k:14076**

Brion, M. (*with* Luna, D.) Sur la structure locale des variétés sphériques. (English summary) [The local structure of spherical varieties] **89k:14077**

De Concini, C. (*with* Lusztig, G.; Procesi, C.) Homology of the zero-set of a nilpotent vector field on a flag manifold. **89f:14052**

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Goresky, R. Mark (*with* MacPherson, R.) On the topology of algebraic torus actions. **89a:14064**

Hambleton, I. (*with* Lee, Ronnie) Finite group actions on $P^2(C)$. **89e:14044**

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Kazhdan, D. (*with* Lusztig, G.) Fixed point varieties on affine flag manifolds. **89m:14025**

Kirwan, F. C. Intersection homology and torus actions. **89c:14072**

Lee, Ronnie *see* **Hambleton, I., 89e:14044**

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O'Halloran, Joyce A characterization of orbit closure. **89f:14054**

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Pommerening, Klaus Invariants of unipotent groups. A survey. **89a:14065**

Popov, V. L. Closed orbits of Borel subgroups. **89c:14073**

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Randall, John D. *see* **Petrie, Ted, 89i:14041**

Schwarz, Gerald W. On classical invariant theory and binary cubics. (French summary) **89h:14036**

— Invariant theory of G_2 and Spin_7. **89k:14080**

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(**Nori, M. V.**) *see* **Mehta, V. B., 89e:14014**

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Poston, Tim (*with* Stewart, Ian) The cross-ratio foliation of binary quartic forms. **89i:58013**

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Rapinchuk, A. S. The Hasse principle for symmetric spaces. (Russian. English summary) **89a:11039**

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— Conjugacy classes of *n*-tuples in Lie algebras and algebraic groups. **89h:20061**

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Snow, Dennis M. Affine homogeneous spaces. **89i:32068**

Speiser, Robert Transversality theorems for families of maps. **89k:14005**

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Sterz, Ulrich *see* **Drechsler, Konrad, 89i:14045**

Stewart, Ian *see* **Poston, Tim, 89i:58013**

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Waterhouse, William C. Inner product identities on the unit circle. **89g:15035**

Wirthmüller, Klaus The discriminants of a series of unimodular singularities of space curves. **89d:32026**

14L32 Toric varieties, Newton polyhedra

De Concini, C. (*with* Goresky, R. Mark; MacPherson, R.; Procesi, C.) On the geometry of quadrics and their degenerations. **89k:14082**

Ewald, Günter Blow-ups of smooth toric 3-varieties. **89b:14065**

— An embedding theorem for smooth projective toric varieties. **89j:14027**

Goresky, R. Mark *see* **De Concini, C.; et al., 89k:14082**

Ishida, Masa-Nori Torus embeddings and de Rham complexes. **89j:14028**

— Convex bodies and algebraic geometry—toric varieties and applications. II. **89m:14027**

Kleinschmidt, Peter A classification of toric varieties with few generators. **89f:14056**

Klyachko, A. A. *K*-theory of Demazure models. (Russian) (*see* **89a:11006**)

MacPherson, R. *see* **De Concini, C.; et al., 89k:14082**

McConnell, Mark The rational homology of toric varieties is not a combinatorial invariant. **89i:14042**

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Items with secondary classifications in 14L32

Abeasis, Silvana On a remarkable class of subvarieties of a symmetric variety. **89k:14075**
Hashimoto, Naoki Deformations of some algebraic surfaces with $q=0$ and $p_g=1$. **89f:14035**
Kaneyama, Tamafumi Torus-equivariant vector bundles on projective spaces. **89i:14012**
Mabuchi, Toshiki Einstein-Kähler forms, Futaki invariants and convex geometry on toric Fano varieties. **89e:53074**
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Voskresenskiĭ, V. E. Invariant Demazure models. (Russian) (*see* **89a:11006**)

14L35 Classical groups (geometric aspects)

Grosshans, Frank D. Constructing invariant polynomials via Tschirnhaus transformations. **89a:14066**

Items with secondary classifications in 14L35

De Concini, C. (*with* Goresky, R. Mark; MacPherson, R.; Procesi, C.) On the geometry of quadrics and their degenerations. **89k:14082**
Dolgachev, Igor V. Rationality of fields of invariants. **89b:14064**
Goresky, R. Mark *see* **De Concini, C.; et al., 89k:14082**
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Procesi, C. *see* **De Concini, C.; et al., 89k:14082**
Ternovskiĭ, V. A. Algebraic surfaces with the symmetry group of the polyhedron 3_{21}. (Russian) **89m:51040**

14L40 Other algebraic groups (geometric aspects)

Items with secondary classifications in 14L40

Knop, Friedrich Ein neuer Zusammenhang zwischen einfachen Gruppen und einfachen Singularitäten. (English summary) [A new connection between simple groups and simple singularities] **89b:14005**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Macaulay)

Migliore, Juan Buchsbaum curves in $\mathbf{P}^3$. **89a:14067**
Ngô Việt Trung (*with* Valla, Giuseppe) Degree bounds for the defining equations of arithmetically Cohen-Macaulay varieties. **89k:14083**
Shkol′nikov, Yu. A. Investigation of the normality of affine hypersurfaces. (Russian) **89k:14084**
Valla, Giuseppe *see* **Ngô Việt Trung, 89k:14083**

Items with secondary classifications in 14M05

Beltrametti, Mauro (*with* Sommese, Andrew John) A criterion for a variety to be a cone. **89f:14041**
Blass, Piotr *see* **Lang, Jeffrey, 89d:14048**
Boratyński, Maksymillian (*with* Greco, Silvio) When does an ideal arise from the Ferrand construction? (Italian summary) **89a:14012**
Brown, W. C. (*with* Kerr, Jeanne Wald) A matrix problem associated with computing Cohen-Macaulay type. **89e:15025**
Chang, Mei Chu Buchsbaum subvarieties of codimension 2 in $\mathbf{P}^n$. **89d:14062**
Davis, Edward D. 0-dimensional subschemes of $\mathbf{P}^2$: lectures on Castelnuovo's function. **89c:14007**
Ellia, Philippe (*with* Fiorentini, Mario) Quelques remarques sur les courbes arithmétiquement Buchsbaum de l'espace projectif. (Italian summary) [Some remarks on arithmetically Buchsbaum curves in projective space] **89g:14024**
Fiorentini, Mario *see* **Ellia, Philippe, 89g:14024**
Geramita, Anthony V. (*with* Maroscia, Paolo; Vogel, Wolfgang) A note on arithmetically Buchsbaum curves in $\mathbf{P}^3$. **89k:14056**
Gotzmann, Gerd Durch Hilbertfunktionen definierte Unterschemata des Hilbertschemas. [Subschemes of the Hilbert scheme that are defined by Hilbert functions] **89d:14003**
Greco, Silvio *see* **Boratyński, Maksymillian, 89a:14012**
Huneke, Craig Hilbert functions and symbolic powers. **89b:13037**
— (*with* Ulrich, Bernd) Algebraic linkage. **89e:13023**
— (*with* Ulrich, Bernd) Minimal linkage and the Gorenstein locus of an ideal. **89e:13024**
Kerr, Jeanne Wald *see* **Brown, W. C., 89e:15025**
Lang, Jeffrey The factoriality of Zariski rings. **89d:14047**
— (*with* Blass, Piotr) Locally factorial generic Zariski surfaces are factorial. **89d:14048**
Levine, Marc Localization on singular varieties. **89c:14015a**
— Erratum to: "Localization on singular varieties". **89c:14015b**
Maggioni, R. (*with* Ragusa, Alfio) On the cohomology groups of linked schemes. (Italian summary) **89k:14086**
Marchionna, Ermanno On normal Cohen-Macaulay varieties. (Italian. English summary) **89e:14005**
Maroscia, Paolo *see* **Geramita, Anthony V.; et al., 89k:14056**
Miller, Matthew (*with* Ulrich, Bernd) Linkage and compressed algebras. **89b:13035**
Panyushev, D. I. The structure of the canonical module and the Gorenstein property for some quasihomogeneous varieties. (Russian) **89m:14029**
Pareschi, Giuseppe Arithmetically Buchsbaum curves on surfaces of degree 3 or 4 in projective space. (Italian. English summary) **89i:14027**
Ragusa, Alfio *see* **Maggioni, R., 89k:14086**
Schenzel, Peter Examples of Noetherian symbolic blow-up rings. **89j:13015**
Sharp, R. Y. (*with* Taherizadeh, A.-J.) Reductions and integral closures of ideals relative to an Artinian module. **89b:13030**
Sommese, Andrew John *see* **Beltrametti, Mauro, 89f:14041**
Suzuki, Naoyoshi On quasi-Buchsbaum modules. An application of theory of FLC-modules. **89j:13025**
Taherizadeh, A.-J. *see* **Sharp, R. Y., 89b:13030**
Ulrich, Bernd *see* **Miller, Matthew, 89b:13035; Huneke, Craig, 89e:13023** *and* **89e:13024**
Vogel, Wolfgang *see* **Geramita, Anthony V.; et al., 89k:14056**

14M07 Low-codimension problems [see also 14Cxx]

Alexander, James Ernest Singularités imposables en position générale à une hypersurface projective. [Singularities that may be imposed in general position on a projective hypersurface] **89k:14085**
Alzati, A. (*with* Ottaviani, Giorgio Maria) Small codimension subvarieties of $\mathbf{P}^n$. (Italian summary) **89c:14074**
Chang, Mei Chu Buchsbaum subvarieties of codimension 2 in $\mathbf{P}^n$. **89d:14062**
Ein, Lawrence Vanishing theorems for varieties of low codimension. **89g:14036**
Ottaviani, Giorgio Maria *see* **Alzati, A., 89c:14074**

Items with secondary classifications in 14M07

Fulton, William On the topology of algebraic varieties. **89c:14027**
Schneider, Michael Hellmut Vector bundles and submanifolds of projective space: nine open problems. **89j:14012**
Villarreal, R. H. Rees algebras and Koszul homology. **89m:13015**

14M10 Complete intersections

Chiantini, Luca A remark on the cohomology of curves in $\mathbf{P}^3$. **89a:14068**
Forster, Otto (*with* Wolffhardt, K.) A theorem on zero schemes of sections in two-bundles over affine schemes with applications to set-theoretic intersections. **89b:14066**
Lyubeznik, Gennady The number of equations needed to define an algebraic set. **89h:14037**
Maggioni, R. (*with* Ragusa, Alfio) On the cohomology groups of linked schemes. (Italian summary) **89k:14086**
Mandal, Satyagopal On set-theoretic intersection in affine spaces. **89h:14038**
Nagel, Uwe (*with* Vogel, Wolfgang) Über mengentheoretische Durchschnitte und Zusammenhang algebraischer Mannigfaltigkeiten im $\mathbf{P}^n$. [On set-theoretic intersections and connectedness of algebraic manifolds in $\mathbf{P}^n$] **89b:14067**
Ragusa, Alfio *see* **Maggioni, R., 89k:14086**
Rollero, Aldo On a V_2^4 in S_4 relative to a binary quartic form. (Italian. English summary) **89h:14039**
Rusjan, Edmond (*with* Senjanović, Goran) A superstring model of four generations. **89k:14087**
Senjanović, Goran *see* **Rusjan, Edmond, 89k:14087**
Vogel, Wolfgang *see* **Nagel, Uwe, 89b:14067**
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Items with secondary classifications in 14M10

Barth, Wolf Paul Affine parts of abelian surfaces as complete intersections of four quadrics. **89b:14053**
Brückmann, Peter Some birational invariants of algebraic varieties. **89f:14013**
Candelas, P. (*with* Dale, A. M.; Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. **89e:14040**
Dale, A. M. *see* **Candelas, P.; et al., 89e:14040**
Davis, Edward D. 0-dimensional subschemes of $\mathbf{P}^2$: new application of Castelnuovo's function. **89c:14009**
Ebeling, Wolfgang ★ The monodromy groups of isolated singularities of complete intersections. **89d:32051**
Ein, Lawrence Vanishing theorems for varieties of low codimension. **89g:14036**
— Subvarieties of generic complete intersections. **89i:14002**
Eliahou, Shalom Symbolic powers of monomial curves. **89k:14055**
Forster, Otto (*with* Ohsawa, Takeo) Complete intersections with growth conditions. **89i:32018**
Jaballah, Ali Monomiale Ideale und mengentheoretische vollständige Durchschnitte. [Monomial ideals and set-theoretic complete intersections] **89h:13012**
Jaffe, David B. Space curves which are the intersection of a cone with another surface. **89m:14015**
Kapranov, M. M. On the derived category and K-functor of coherent sheaves on intersections of quadrics. **89f:14014**
Kucharz, W. A remark on projective modules. **89b:14034**
— Real algebraic curves and complete intersections. **89g:14013**
Lütken, C. A. *see* **Candelas, P.; et al., 89e:14040**
L′vovskiĭ, S. M. Extension of varieties defined by quadratic equations. **89g:14033**
Murthy, M. Pavaman Zero-cycles, splitting of projective modules and number of generators of a module. **89f:14011**
Negri, Antonella On the rationality of the cubic complex containing eight planes. (Italian. English summary) **89c:14061**
Ohsawa, Takeo *see* **Forster, Otto, 89i:32018**
Restuccia, Gaetana Formes linéaires et algèbres symétriques. (English summary) [Linear forms and symmetric algebras] **89b:13025**
Roggero, Margherita On the rank 2 reflexive sheaves and the subcanonical curves in $\mathbf{P}^3$. **89g:14007**
Schimmrigk, Rolf *see* **Candelas, P.; et al., 89e:14040**
Ulrich, Bernd Vanishing of cotangent functors. **89c:13016**

14M12 Determinantal varieties

Alekseev, V. N. Tangent spaces to determinantals. (Russian) **89j:14029**
Eisenbud, David On the resiliency of determinantal ideals. **89h:14040**
— Linear sections of determinantal varieties. **89h:14041**
Pragacz, Piotr (*with* Weyman, Jerzy) On the construction of resolutions of determinantal ideals: a survey. **89d:14063**

Ruitenburg, G. C. M. The GL(n)-invariant ideals of the coordinate ring of pairs of symmetric matrices with product zero. **89g:14037**
Taussky, Olga Nonsingular cubic curves as determinantal loci. **89g:14038**
Tu, Loring W. Degeneracy loci. **89c:14075**
— The connectedness of symmetric and skew-symmetric degeneracy loci: even ranks. **89i:14043**
Weyman, Jerzy *see* **Pragacz, Piotr, 89d:14063**

Items with secondary classifications in 14M12

Abhyankar, Shreeram S. ★ Enumerative combinatorics of Young tableaux. **89e:05011**
Boffi, Giandomenico The case of the submaximal minors: a finishing touch. **89e:13016**
Bruns, Winfried (*with* Vetter, Udo) ★ Determinantal rings. **89i:13001**
Degoli, Lando On Segre varieties, the bases of linear systems of quadrics. (Romanian) **89g:14040**
Klimek, Jacek A resolution of the square of a determinantal ideal associated to a symmetric matrix. **89j:13014**
Logachev, D. Yu. Birational isomorphism of a three-dimensional cubic and of the section of $G(2,6)$ by five hyperplanes, and similar problems. (Russian) **89c:14016**
Ulrich, Bernd Theory and applications of universal linkage. **89k:13022**
Vetter, Udo *see* **Bruns, Winfried, 89i:13001**
Vinnikov, Victor A complete description of selfadjoint determinantal representations of real irreducible cubics. **89b:14051**

14M15 Grassmannians, Schubert varieties [see also 51M35]

Babakhanian, Ari (*with* Hironaka, Heisuke) On the complex Grassmann manifold. **89m:14028**
Bertolini, Marina (*with* Turrini, Cristina) On the automorphisms of some line congruences in $\mathbf{P}^3$. **89k:14088**
Cowen, Michael J. Automorphisms of Grassmannians. **89k:14089**
Hironaka, Heisuke *see* **Babakhanian, Ari, 89m:14028**
Kraśkiewicz, Witold Some remarks on the hook formula. (Italian summary) **89g:14039**
Mehta, V. B. (*with* Ramanathan, Annamalai) Schubert varieties in $G/B \times G/B$. **89k:14090**
Ramanathan, Annamalai *see* **Mehta, V. B., 89k:14090**
Turrini, Cristina *see* **Bertolini, Marina, 89k:14088**

Items with secondary classifications in 14M15

Chiavacci, Rossana (*with* Escamilla-Castillo, Juan) Schubert calculus and enumerative problems. (Italian summary) **89g:14041**
Choi, Kil Nam A note on the Grassmann manifolds $G(k,n)$. (Korean summary) **89b:57016**
De Mari, Filippo (*with* Shayman, Mark A.) Generalized Eulerian numbers and the topology of the Hessenberg variety of a matrix. **89i:05009**
Doty, Stephen R. (*with* Sullivan, John B.) On the intertwinings between higher cohomology modules of line bundles on G/B. **89b:20085**
— (*with* Sullivan, John B.) On the structure of the higher cohomology modules of line bundles on G/B. **89d:20033**
Escamilla-Castillo, Juan *see* **Chiavacci, Rossana, 89g:14041**
Huibregtse, Mark E. (*with* Johnsen, Trygve) Local properties of secant varieties in symmetric products. I. **89i:14025**
Johnsen, Trygve Local properties of secant varieties in symmetric products. II. **89i:14026**
— *see also* **Huibregtse, Mark E., 89i:14025**
Kotiĭ, O. A. (*with* Savina, K. V.) Classification of two-dimensional quartics on the Grassmannian $G(1,3)$. (Russian) **89f:14059**
Lehrer, G. I. A survey of Hecke algebras and the Artin braid groups. **89m:20043**
Mitchell, S. A. The Bott filtration of a loop group. **89d:32070**
Sánchez Valenzuela, Oscar Adolfo Remarks on Grassmannian supermanifolds. **89k:58027**
Savina, K. V. *see* **Kotiĭ, O. A., 89f:14059**
Shayman, Mark A. *see* **De Mari, Filippo, 89i:05009**
Speiser, Robert Enumerating contacts. **89c:14078**
Sullivan, John B. *see* **Doty, Stephen R., 89b:20085** *and* **89d:20033**
Tango, Hiroshi On a 5-dimensional nonsingular rational subvariety of Grassmann variety $G_r(5,1)$. I. (Japanese. English summary) **89k:14030**
Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

14M17 Homogeneous spaces [see also 32M10, 53C30, 57T15]

De Concini, C. Equivariant embeddings of homogeneous spaces. **89e:14045**
Kraśkiewicz, Witold (*with* Pragacz, Piotr) Foncteurs de Schubert. (English summary) [Schubert functors] **89b:14068**
Panyushev, D. I. The structure of the canonical module and the Gorenstein property for some quasihomogeneous varieties. (Russian) **89m:14029**
Pragacz, Piotr *see* **Kraśkiewicz, Witold, 89b:14068**

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Abeasis, Silvana On a remarkable class of subvarieties of a symmetric variety. **89k:14075**
Akhiezer, D. N. On the notion of rank of a spherical homogeneous space. (Russian) **89k:32060**
Brion, M. Sur l'image de l'application moment. [On the image of the moment mapping] **89i:32062**
— (*with* Luna, D.) Sur la structure locale des variétés sphériques. (English summary) [The local structure of spherical varieties] **89k:14077**
De Concini, C. (*with* Goresky, R. Mark; MacPherson, R.; Procesi, C.) On the geometry of quadrics and their degenerations. **89k:14082**
Goresky, R. Mark *see* **De Concini, C.; et al., 89k:14082**
Knop, Friedrich (*with* Menzel, Gisela) Duale Varietäten von Fahnenvarietäten. [Dual varieties of flag varieties] **89a:14051**
Laksov, Dan Completed quadrics and linear maps. **89c:14077**
Luna, D. *see* **Brion, M., 89k:14077**
MacPherson, R. *see* **De Concini, C.; et al., 89k:14082**
Mehta, V. B. (*with* Ramanathan, Annamalai) Schubert varieties in $G/B \times G/B$. **89k:14090**
Menzel, Gisela *see* **Knop, Friedrich, 89a:14051**
Ottaviani, Giorgio Maria Spinor bundles on quadrics. **89h:14012**
Procesi, C. *see* **De Concini, C.; et al., 89k:14082**
Ramanathan, Annamalai *see* **Mehta, V. B., 89k:14090**
Wang, Jian Pan The inverse image of an induced sheaf on G/P. (Chinese. English summary) **89k:20058**
Wehler, Joachim Hypersurfaces of the flag variety: deformation theory and the theorems of Kodaira-Spencer, Torelli, Lefschetz, M. Noether and Serre. **89g:32051**
Wong, W. J. Very strong linkage for cohomology groups of line bundles on G/B. **89c:20063**

14M20 Rational varieties

Items with secondary classifications in 14M20

Dolgachev, Igor V. Rationality of fields of invariants. **89b:14064**
Eisenbud, David (*with* Herzog, Jürgen) The classification of homogeneous Cohen-Macaulay rings of finite representation type. **89c:13012**
Herzog, Jürgen *see* **Eisenbud, David, 89c:13012**
Le Bruyn, L. Quiver concomitants are often reflexive Azumaya. **89g:16030**
Mori, Shigefumi Classification of higher-dimensional varieties. **89a:14040**
Renner, L. E. Class groups of rank one semisimple monoids. **89d:20054**

14M99 None of the above, but in this section

Pate, Thomas H. Algebraic varieties of multilinear functions. **89h:14042**

Items with secondary classifications in 14M99

De Concini, C. (*with* Lusztig, G.; Procesi, C.) Homology of the zero-set of a nilpotent vector field on a flag manifold. **89f:14052**
Lusztig, G. *see* **De Concini, C.; et al., 89f:14052**
Procesi, C. *see* **De Concini, C.; et al., 89f:14052**

14Nxx Classical methods and problems [see also 51–XX]

Items with secondary classifications in 14Nxx

(Faour, N.) *see* **Mathematical analysis and its applications, 89b:14002**
(Hamoui, A.) *see* **Mathematical analysis and its applications, 89b:14002**
(Holme, Audun) *see* **Algebraic geometry, Sundance 1986, 89b:14001**
(Mazhar, S. M.) *see* **Mathematical analysis and its applications, 89b:14002**
(Speiser, Robert) *see* **Algebraic geometry, Sundance 1986, 89b:14001**

Items listed otherwise than by author

Algebraic geometry, Sundance 1986 ★ Algebraic geometry, Sundance 1986. **89b:14001**
Conference:
  Algebraic Geometry ★ Algebraic geometry, Sundance 1986. **89b:14001**
  Mathematical Analysis and its Applications ★ Mathematical analysis and its applications. **89b:14002**
Kuwait ★ Mathematical analysis and its applications. **89b:14002**
Lecture Notes in Mathematics ★ Algebraic geometry, Sundance 1986. **89b:14001**
Mathematical analysis and its applications ★ Mathematical analysis and its applications. **89b:14002**
Sundance, UT ★ Algebraic geometry, Sundance 1986. **89b:14001**

14N05 Projective techniques

Ådlandsvik, Bjørn Joins and higher secant varieties. **89j:14030**
Baldisserri, Natalia Nets of conics in a plane over a field of characteristic 2. (Italian. English summary) **89k:14091**
Degoli, Lando On the characteristic of the Jacobian of irreducible linear systems of quadrics. (Italian. English summary) **89k:14092**
— On Segre varieties, the bases of linear systems of quadrics. (Romanian) **89g:14040**
— Sur le rang de la jacobienne des systèmes linéaires de quadriques. (English summary) [On the rank of the Jacobian of linear systems of quadrics] **89f:14057**
— Un théorème sur les systèmes linéaires irréductibles de quadriques. (English and Serbo-Croatian summaries) [A theorem on irreducible linear systems of quadrics] **89j:14031**
— On the rank of the Jacobian of linear systems of quadrics. (Italian) **89b:14069**
— Determination of the bases of linear systems of quadrics. (Italian. English summary) **89i:14044**
Edge, W. L. Geometry related to the key del Pezzo surface and the associated mapping of plane cubics. **89f:14058**
Finat, J. A combinatorial presentation of the variety of complete quadrics. **89c:14076**
Kotiĭ, O. A. (*with* Savina, K. V.) Classification of two-dimensional quartics on the Grassmannian $G(1,3)$. (Russian) **89f:14059**
Rogozina, E. S. Congruence of the 4-secants of a norm-curve in $\mathbf{P}_7$. (Russian) **89a:14069**
Savina, K. V. *see* **Kotiĭ, O. A., 89f:14059**
Shuker, N. H. Commutativity of irreducible symmetric two-two correspondences which have the same branch points. (Arabic summary) **89d:14064**
Vinnikov, Victor Selfadjoint determinantal representations of real irreducible cubics. **89h:14043**
Vujaković, Dušan The geometric locus of the foci of a family of conics. (Russian. Serbo-Croatian summary) **89a:14070**
Zharov, S. V. Constructive birational mapping of the points of the space $\mathbf{P}_4$ onto linear series g_3^1 of a conic. (Russian) **89e:14046**

Items with secondary classifications in 14N05

Apostolova, M. P. (*with* Petrov, L. K.) Special cases of hypersurfaces in $\mathbf{P}_4$ obtained by stereographic projection of a quadric onto a plane and a collineation. I. (Bulgarian. English and Russian summaries) **89f:51093**

Bolondi, Giorgio On the classification of curves linked to two skew lines. **89e:14032**
Cinquegrani, Maria Grazia Nonsingular curves passing through a zero-dimensional subscheme of $\mathbf{P}^2$. **89f:14028**
Georgiev, G. Kh. *see* **Grigorov, Kh., 89k:14015**
Gimigliano, A. Notes on Veronesean surfaces. **89b:14055**
Grigorov, Kh. (*with* Stoev, G. S.) A class of Cremona transformations in $\mathbf{P}_4$ of type $T_{4\text{-}4\text{-}4}$. (Bulgarian. English and Russian summaries) **89f:51094**
— (*with* Georgiev, G. Kh.) Groups of Cremona transformations of degree $(2n+1)$ in $\mathbf{P}_4$. (Bulgarian. English and Russian summaries) **89k:14015**
Hoffmann, Christoph (*with* Hopcroft, John) The geometry of projective blending surfaces. **89m:68134**
Holme, Audun On the classification of smooth projective subvarieties of $\mathbf{P}^N$. **89c:14066**
— The geometric and numerical properties of duality in projective algebraic geometry. **89k:14093**
Hopcroft, John *see* **Hoffmann, Christoph, 89m:68134**
Langov, Anani (*with* Stanilova, Lidiya) A group of Cremona cubic transformations in a three-dimensional projective space. (Bulgarian. English and Russian summaries) **89i:14007**
Loskiewicz, Genowefa Certain théorème du faisceau de quadriques. (Russian and Polish summaries) [A theorem on the pencil of quadrics] **89f:51095**
Maĭorov, A. V. Some types of elliptic ruled surfaces in $\mathbf{P}_5$. (Russian) **89h:14029**
Mestrano, N. Points rationnels des courbes génériques de $\mathbf{P}^3$. II. (English summary) [Rational points of generic curves in $\mathbf{P}^3$. II] **89f:14021**
Petrov, L. K. A central projection in $\mathbf{P}_3$ of a normcurve on a plane. (Bulgarian. English and Russian summaries) **89f:51096**
— *see also* **Apostolova, M. P., 89f:51093**
Schaal, Hermann Bemerkungen zum Schmetterlingssatz. [Remarks on the butterfly theorem] **89i:51023**
Stanilova, Lidiya *see* **Langov, Anani, 89i:14007**
Stoev, G. S. *see* **Grigorov, Kh., 89f:51094**
Trautmann, G. Poncelet curves and associated theta characteristics. **89c:14047**

14N10 Enumerative problems

Casas Alvero, E. (*with* Xambó Descamps, S.) Halphen's enumerative theory of conics and its extensions to higher order conditions. **89a:14071**
Chiavacci, Rossana (*with* Escamilla-Castillo, Juan) Schubert calculus and enumerative problems. (Italian summary) **89g:14041**
Colley, Susan Jane Enumerating stationary multiple-points. **89g:14042**
Drechsler, Konrad (*with* Sterz, Ulrich) On completeness of varieties in enumerative geometry. **89i:14045**
D'Souza, Harry On the monodromy group of everywhere tangent lines to the octic surface in $\mathbf{P}^3$. **89d:14065**
Elencwajg, G. (*with* Le Barz, P.) Explicit computations in $\mathrm{Hilb}^3\mathbf{P}^2$. **89m:14030**
Escamilla-Castillo, Juan *see* **Chiavacci, Rossana, 89g:14041**
Holme, Audun The geometric and numerical properties of duality in projective algebraic geometry. **89k:14093**
Katz, Sheldon H. Iteration of multiple point formulas and applications to conics. **89j:14032**
Kennedy, Gary (*with* Yokura, Shoji) Specialization of Segre classes of singular algebraic varieties. **89k:14094**
Kleiman, Steven L. (*with* Speiser, Robert) Enumerative geometry of nodal plane cubics. **89k:14095**
Laksov, Dan Completed quadrics and linear maps. **89c:14077**
Le Barz, P. *see* **Elencwajg, G., 89m:14030**
Roberts, Joel Old and new results about the triangle varieties. **89k:14096**
Romagnoli, Daniela The Galois group of lines in $\mathbf{P}^3$ quadritangential to a surface of degree 8. (Italian. English summary) **89i:14046**
Speiser, Robert Enumerating contacts. **89c:14078**
— *see also* **Kleiman, Steven L., 89k:14095**
Sterz, Ulrich *see* **Drechsler, Konrad, 89i:14045**
Xambó Descamps, S. *see* **Casas Alvero, E., 89a:14071**
Yokura, Shoji *see* **Kennedy, Gary, 89k:14094**

Items with secondary classifications in 14N10

Diaz, Steven (*with* Harris, Joseph Daniel) Geometry of Severi varieties. II. Independence of divisor classes and examples. **89g:14014**
Ghione, Franco (*with* Sacchiero, Gianni) Genre d'une courbe lisse tracée sur une variété réglée. [Genus of a smooth curve traced on a ruled variety] **89e:14034**
Harris, Joseph Daniel *see* **Diaz, Steven, 89g:14014**
Huibregtse, Mark E. (*with* Johnsen, Trygve) Local properties of secant varieties in symmetric products. I. **89i:14025**
Johnsen, Trygve Local properties of secant varieties in symmetric products. II. **89i:14026**
— *see also* **Huibregtse, Mark E., 89i:14025**
Rosselló Llompart, F. (*with* Xambó Descamps, S.) Computing Chow groups. **89h:14003**
Sacchiero, Gianni *see* **Ghione, Franco, 89e:14034**
Xambó Descamps, S. *see* **Rosselló Llompart, F., 89h:14003**

14N99 None of the above, but in this section

Items with secondary classifications in 14N99

Agrachëv, A. A. (*with* Gamkrelidze, R. V.) Calculation of the Euler characteristic of the intersections of real quadrics. **89h:14019**
— Homology of the intersections of real quadrics. **89h:14020**
Gamkrelidze, R. V. *see* **Agrachëv, A. A., 89h:14019**
Knop, Friedrich (*with* Menzel, Gisela) Duale Varietäten von Fahnenvarietäten. [Dual varieties of flag varieties] **89a:14051**
Kreuzer, Martin (*with* Kunz, E.) Traces in strict Frobenius algebras and strict complete intersections. **89c:14022**
Kunz, E. *see* **Kreuzer, Martin, 89c:14022**
Menzel, Gisela *see* **Knop, Friedrich, 89a:14051**
Natanzon, S. M. Real meromorphic functions on real algebraic curves. **89c:14048**
Shustin, E. I. A new M-curve of degree eight. (Russian) **89c:14049**

15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

Items with secondary classifications in 15–XX

Balsamo, J. Whitney *see* **Packard, Andy,** (Not in MR)
Packard, Andy (*with* Balsamo, J. Whitney) A maximum modulus theorem for linear fractional transformations. (Not in MR)

15–00 Handbooks, dictionaries, and other reference works

Items listed otherwise than by author

Index:
Linear Algebra Appl. 20 year index: Vol. 1–100, 1968/1988. **89h:15001**

15–01 Elementary exposition; textbooks

Borevich, Z. I. ★ Определители и матрицы. (Russian) [Determinants and matrices] **89k:15001**
Brown, W. C. ★ A second course in linear algebra. **89f:15001**
Golovina, L. I. ★ Линейная алгебра и некоторые ее приложения. (Russian) [Linear algebra and some of its applications] **89e:15001**
Lorenz, Falko ★ Lineare Algebra. I. (German) [Linear algebra. I] **89j:15001**
Magnus, Jan R. (*with* Neudecker, Heinz) ★ Matrix differential calculus with applications in statistics and econometrics. **89g:15001**
Neudecker, Heinz *see* **Magnus, Jan R., 89g:15001**
Shikin, E. V. ★ Линейные пространства и отображения. (Russian) [Linear spaces and mappings] **89j:15002**
Stoka, Marius ★ Corso di geometria. (Italian) [Course in geometry] **89b:15001**
Usmani, Riaz A. ★ Applied linear algebra. **89e:15002**

Items with secondary classifications in 15–01

Blyth, T. S. (*with* Robertson, Edmund F.) ★ Matrices and vector spaces. **89b:00001b**
— (*with* Robertson, Edmund F.) ★ Linear algebra. **89b:00001d**
Buldyrev, V. S. (*with* Pavlov, B. S.) ★ Линейная алгебра и функции многих переменных. (Russian) [Linear algebra and functions of several variables] **89f:00001**
Cronin, T. M. The construction of matrices with required properties over the integers. **89b:15023**
Deschamps, Cl. *see* **Ramis, E.; et al., 89f:00003**
Ěkbĕrov, M. S. ★ Khĕtti fĕzalar vĕ khĕtti operatorlar. (Azerbaijani) [Linear spaces and linear operators] (Not in MR)
Godement, Roger ★ Cours d'algèbre. (French) [Course in algebra] **89b:00002**
Kiełbasiński, A. (*with* Schwetlick, H.) ★ Numerische lineare Algebra. (German) [Numerical linear algebra] **89e:65001**
Moszyńska, M. (*with* Święcicka, Joanna) ★ Geometria z algebrą liniową. (Polish) [Geometry with linear algebra] **89e:51001**
Odoux, J. *see* **Ramis, E.; et al., 89f:00003**
Pavlov, B. S. *see* **Buldyrev, V. S., 89f:00001**
Ramis, E. (*with* Deschamps, Cl.; Odoux, J.) ★ Algèbre. (French) [Algebra] **89f:00003**
Robertson, Edmund F. *see* **Blyth, T. S., 89b:00001b** *and* **89b:00001d**
Schwetlick, H. *see* **Kiełbasiński, A., 89e:65001**
Święcicka, Joanna *see* **Moszyńska, M., 89e:51001**

15–02 Advanced exposition (research surveys, monographs, etc.)

Johnson, Charles Royal Combinatorial matrix analysis: an overview. **89k:15002**
Magnus, Jan R. ★ Linear structures. **89j:15003**
Minc, Henryk ★ Nonnegative matrices. **89i:15001**
Thompson, Robert C. Invariant factors of algebraic combinations of matrices. **89c:15001**

Items with secondary classifications in 15–02

Ando, Tsuyoshi ★ Matrix quadratic equations. **89c:15019**
Minc, Henryk Theory of permanents, 1982–1985. **89b:15008**
Rodman, Leiba Hermitian matrix polynomials. **89b:15036**
Wilkinson, J. H. ★ The algebraic eigenvalue problem. **89j:65031**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

(Cayley, Arthur) *see* **Crilly, Tony, 89j:01039**
Crilly, Tony The decline of Cayley's invariant theory (1863–1895). (French and German summaries) **89j:01039**
Katz, Victor J. Who is the Jordan of Gauss-Jordan? **89f:01034**
Rōttel, Karl Der mathematiker Michael Stifel. [The mathematician Michael Stifel] **89c:01019**
(Stifel, Michael) *see* **Röttel, Karl, 89c:01019**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Zhang, Zhi Nan An algorithm for obtaining the exact characteristic polynomial of integer matrices. (Chinese. English summary) **89i:15002**

Items with secondary classifications in 15–04

(Bissell, C. C.) *see* **Kremer, H., 89f:65033**

Bshouty, Nader H. *see* **Kaminski, Michael; et al., 89m:68061**

Bulgakov, A. Ya. (*with* Godunov, S. K.) Circular dichotomy of a matrix spectrum. **89m:15005**

Coleman, Thomas F. (*with* Van Loan, Charles) ★ Handbook for matrix computations. **89h:65001**

(Fidler, J. K.) *see* **Kremer, H., 89f:65033**

Friedberg, Stephen H. A difference equation and operation counts in the computation of determinants. **89k:65049**

Godunov, S. K. *see* **Bulgakov, A. Ya., 89m:15005**

Hesselink, Wim H. Dimension formulas related to a tame quiver. **89e:15004**

Kaminski, Michael (*with* Kirkpatrick, David; Bshouty, Nader H.) Addition requirements for matrix and transposed matrix products. **89m:68061**

Kirkpatrick, David *see* **Kaminski, Michael; et al., 89m:68061**

Kremer, H. ★ Numerical analysis of linear networks and systems. **89f:65033**

Krupovnickas, Algirdas (*with* Paulauskas, Celestinas) Deterministic and statistical estimates for the solutions of systems of linear algebraic equations. (Russian. English and Lithuanian summaries) **89h:65064**

Li, Xue Kui Direct evaluation of characteristic polynomials. (Chinese. English summary) **89k:15023**

Motscha, Matthias Algorithm to compute the complex stability radius. **89k:93189**

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15A03 Vector spaces, linear dependence, rank

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15A04 Linear transformations, semilinear transformations

Beasley, LeRoy B. Linear operators on matrices: the invariance of rank-k matrices. **89h:15004**

Heuvers, Konrad J. (*with* Waterhouse, William C.) Sums of weight vectors and sums of semilinear functions. **89b:15002**

Korobov, A. A. Decomposition of a simple transformation into a product of simple transformations with given parameters. (Russian) **89f:15003**

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15A06 Linear equations

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Andreae, Thomas A remark on perfect Gaussian elimination of symmetric matrices. **89k:05066**
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15A09 Matrix inversion, generalized inverses

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— *see also* **Gover, M. J. C., 89e:15008**
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15A12 Conditioning of matrices [see also 65F35]

Zhang, Yao More on the distribution of the eigenvalues of a diagonally dominant matrix. (Chinese. English summary) **89h:15011**

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15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]

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Bart, H. (*with* Hoogland, H.) Complementary triangular forms of pairs of matrices, realizations with prescribed main matrices, and complete factorization of rational matrix functions. **89c:15017**

Chaudhari, N. S. (*with* Sarda, N. L.; Phatak, D. B.) An invariant for a subspace of the finite-dimensional vector space and automorphism partition of a real symmetric matrix. **89g:15012**

Choudhury, Dipa (*with* Horn, Roger A.) An analogue of the Schur triangular factorization for complex orthogonal similarity and consimilarity. **89b:15013**

Critchley, Frank On certain linear mappings between inner-product and squared-distance matrices. **89h:15016**

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Lancaster, Peter (*with* Ye, Qiang) Inverse spectral problems for linear and quadratic matrix pencils. **89i:15016**

Lin, Wen Wei The computation of the Kronecker canonical form of an arbitrary symmetric pencil. **89k:15017**

Phatak, D. B. *see* **Chaudhari, N. S.; et al., 89g:15012**

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Tu, Bo Xun Unitary similarity theory for square matrices over strong p-division rings. I. (Chinese. English summary) **89a:15011**

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Wimmer, Harald K. State group realizations of matrices of rational numbers. **89a:15012**

Ye, Qiang *see* **Lancaster, Peter, 89i:15016**

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Bart, H. Upper triangularization of matrices by permutations and lower triangular similarity transformations. **89j:15021**

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Pate, Thomas H. Lower bounds for polar and tensor ranks. **89g:15038**
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Wang, Alan P. (*with* Misteri, F.) Star-diagonalization of 3×3 scattering matrices. **89e:93054**
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Denman, E. D. *see* **Hariche, K., 89b:15016**
Hariche, K. (*with* Denman, E. D.) On solvents and Lagrange interpolating λ-matrices. **89b:15016**
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Väliaho, H. Determining the inertia of matrix pencil as a function of the parameter. **89j:15020**
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Gohberg, I. (*with* Rubinstein, Sorin) Cascade decompositions of rational matrix functions and their stability. **89b:93041**
Kaczorek, T. Zero-degree solutions to the bilateral polynomial matrix equations. (Russian summary) **89h:93019**
Kublanovskaya, V. N. Construction of the vector spectral characteristics of a polynomial matrix pencil. (Russian) **89c:65058**
Lin, Wen Wei The computation of the Kronecker canonical form of an arbitrary symmetric pencil. **89k:15017**
Mazko, A. G. On a problem of the distribution of the spectrum of a regular matrix pencil. (Russian) **89a:15008**
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Meyer, Carl D. (*with* Stewart, G. W.) Derivatives and perturbations of eigenvectors. **89g:65043**
Petrichkovich, V. M. Semiscalar equivalence and the Smith normal form of polynomial matrices. (Russian) **89d:15005**
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Wilkinson, J. H. Eigenvalue problems. **89d:65042**

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Fiedler, M. (*with* Markham, Thomas L.) On the range of the Hadamard product of a positive definite matrix and its inverse. **89j:15022**
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Kuo, Kung Hwang (*with* Wu, Pei Yuan) Factorization of matrices into partial isometries. **89m:15008**
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Liu, Kang Man Decomposition of matrices into three involutions. **89k:15021**
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Meleshko, V. I. (*with* Zadachin, V. M.) Factorizations and pseudo-inversions of singular perturbed matrices with nonfixed signs. (Russian) **89a:15013**
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Alpay, Daniel (*with* Dym, Harry) On applications of reproducing kernel spaces to the Schur algorithm and rational J unitary factorization. **89g:46051**
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Bistritz, Yuval (*with* Kailath, Thomas) Inversion and factorization of non-Hermitian quasi-Toeplitz matrices. **89b:65067**
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Fritzsche, Bernd (*with* Kirstein, Bernd) On the structure of the maximum entropy extension. **89m:15016**
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Ip, Chi Ming On least-change secant updates in factored form. **89e:65065**
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15A24 Matrix equations and identities

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15A27 Commutativity

Mazko, A. G. Matrix commutation equations in a generalized eigenvalue problem. (Russian) **89j:15025**

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15A30 Algebraic systems of matrices [see also 16A42, 20Gxx, 20Hxx]

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Higman, D. G. Coherent algebras. **89d:15001**
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15A33 Matrices over special rings (quaternions, finite fields, etc.)

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— Matrix equations over the quaternions. (Chinese) **89h:15025**

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— Inequalities for the eigenvalues and singular values of quaternion matrices. (Chinese. English summary) **89i:15015**
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15A36 Matrices of integers [see also 11C20]

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Borosh, I. (*with* Flahive, Mary G.; Rubin, David S.; Treybig, L. B.) A sharp bound for solutions of linear Diophantine equations. **89i:15022**
Cronin, T. M. The construction of matrices with required properties over the integers. **89b:15023**
Ermers, Ruud (*with* Polman, Ben) On the eigenvalues of the structure matrix of matrices of zeros and ones. **89i:15023**
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Forcade, Rodney W. *see* **Barrett, Wayne W.; et al., 89j:15029**
Gilbert, Richard C. Companion matrices with integer entries and integer eigenvalues and eigenvectors. **89j:15030**
de la Harpe, Pierre (*with* Wenzl, Hans) Opérations sur les rayons spectraux de matrices symétriques entières positives. (English summary) [Operations on the spectral radii of positive integral symmetric matrices] **89h:15026**
Newman, Morris Unimodular commutators. **89b:15024**
— Counting modular matrices with specified Euclidean norm. **89b:15025**
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Lewin, Mordechai On the primitivity of a nonnegative matrix with many entries. **89e:15031**
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Waterhouse, William C. Integral 4 by 4 skew circulants. **89d:11100**
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15A39 Linear inequalities

Berenshtein, A. D. (*with* Vaĭnshteĭn, A. D.) A multiplicative analogue of the Bergstrom inequality for a matrix product in the sense of Hadamard. (Russian) **89b:15026**
Goberna, M. A. (*with* López, Marco Antonio) A theory of linear inequality systems. **89g:15014**
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Lozovanu, D. D. Duality principle for systems of linear inequalities with the right-hand sides depending on parameters. **89j:15032**
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Hu, Hui An algorithm for rescaling a matrix positive definite. **89d:65046**
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15A42 Inequalities involving eigenvalues and eigenvectors

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Dobrovol'skiĭ, V. V. Localization of the eigenvalues of stochastic matrices in the presence of a pure imaginary perturbation. (Russian) **89g:15025**
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Väliaho, H. Determining the inertia of matrix pencil as a function of the parameter. **89j:15020**

15A45 Miscellaneous inequalities involving matrices

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Bernstein, Dennis S. Inequalities for the trace of matrix exponentials. **89b:15031**
Chen, Dao Qi A trace inequality for positive semidefinite Hermitian matrices. (Chinese) **89i:15026**
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Cover, Thomas M. (*with* Thomas, Joy A.) Determinant inequalities via information theory. **89k:15028**

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Brualdi, Richard A. (*with* Goldwasser, John L.; Michael, T. S.) Maximum permanents of matrices of zeros and ones. **89c:15010**
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— $A \geq B \geq 0$ iff $(B^r A^p B^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p+2r$. **89b:47027**
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15A48 Positive matrices and their generalizations; cones of matrices

Cao, Chong Guang Some theorems on self-conjugate quaternion matrices. (Chinese. English summary) **89k:15031**
Cvetković, Ljiljana (*with* Herceg, Dragoslav) Some results on M- and H-matrices. (Serbo-Croatian summary) **89f:15016**
Fiedler, M. (*with* Markham, Thomas L.) An inequality for the Hadamard product of an M-matrix and an inverse M-matrix. **89e:15029**
— Characterizations of MMA-matrices. **89g:15021**
Friedland, Shmuel (*with* Li, Chi-Kwong; Schneider, Hans) Additive decomposition of nonnegative matrices with applications to permanents and scaling. **89j:15034**
Fritzsche, Bernd (*with* Kirstein, Bernd) A Schur type matrix extension problem. **89a:15019**
— (*with* Kirstein, Bernd) A matrix extension problem with entropy optimization. **89j:15035**
Grinstead, Charles M. Cycle lengths in $A^k b$. **89j:15036**
Guo, Zhong The primitive index set of a primitive matrix with positive diagonal elements. (Chinese) **89h:15027**
— A criterion for a class of partially nonpositive matrices. (Chinese. English summary) **89k:15032**
Herceg, Dragoslav *see* **Cvetković, Ljiljana, 89f:15016**
Hershkowitz, Daniel (*with* Rothblum, Uriel G.; Schneider, Hans) Characterizations and classifications of M-matrices using generalized nullspaces. **89j:15037**
— (*with* Rothblum, Uriel G.; Schneider, Hans) Classifications of nonnegative matrices using diagonal equivalence. **89h:15028**
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Lewin, Mordechai On the primitivity of a nonnegative matrix with many entries. **89e:15031**
Li, Chi-Kwong *see* **Friedland, Shmuel; et al., 89j:15034**
Liang, Jing Wei Some inequalities concerning positive definiteness of matrices. (Chinese) **89j:15038**
Loewy, Raphael Dimension of faces generated by certain positive linear operators. **89g:15022**
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Maybee, John S. (*with* Wiener, Gerry M.) From qualitative matrices to quantitative restrictions. **89e:15032**
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Pang, Ming Xian The equivalent representations of p.n.p. matrices. (Chinese) **89a:15020**
— On constructions of partially nonpositive matrices. **89k:15033**
Pulskamp, Richard J. Constructing a map from a table of intercity distances. **89g:15023**
Rothblum, Uriel G. *see* **Hershkowitz, Daniel; et al., 89h:15028** *and* **89j:15037**
Schneider, Hans *see* **Hershkowitz, Daniel; et al., 89h:15028; Friedland, Shmuel; et al., 89j:15034** *and* **Hershkowitz, Daniel; et al., 89j:15037**
Smith, Ronald L. Some notes on Z-matrices. **89k:15034**
Subiza Martínez, Begoña Matrix games and their application to the Perron-Frobenius theory. (Spanish. English summary) **89g:15024**
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Ammar, Gregory S. (*with* Gragg, William B.) The implementation and use of the generalized Schur algorithm. **89b:65112**
Anderson, W. N. (*with* Mays, Michael E.; Morley, T. D.; Trapp, G. E.) The contraharmonic mean of HSD matrices. **89b:47030**
Arsene, Gr. (*with* Ceauşescu, Zoia; Constantinescu, T.) Schur analysis of some completion problems. **89k:47010**
Barkovskii, Yu. S. (*with* Ogorodnikova, T. V.) Matrices with a positive and simple spectrum. (Russian) **89j:15016**
Berman, Abraham (*with* Jain, Surender Kumar) Nonnegative generalized inverses of powers of nonnegative matrices. **89g:15006**
Ceauşescu, Zoia *see* **Arsene, Gr.; et al., 89k:47010**
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Green, W. L. (*with* Morley, T. D.) Four variational formulations of the contraharmonic mean of operators. **89b:47029**
Guo, Xiao Feng *see* **Chen, Rong Si; et al., 89k:05068**
Hershkowitz, Daniel (*with* Schneider, Hans) Solutions of Z-matrix equations. **89f:15004**
Hu, Hui An algorithm for rescaling a matrix positive definite. **89d:65046**
Ioannou, P. A. *see* **Tao, Gang, 89i:93026**
Jain, Surender Kumar *see* **Berman, Abraham, 89g:15006**
Kwong, Man Kam On the definiteness of the solutions of certain matrix equations. **89k:15022**
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Maiti, S. S. *see* **Mukherjee, B. N., 89c:15013**
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Mays, Michael E. *see* **Anderson, W. N.; et al., 89b:47030**
Minc, Henryk ★ Nonnegative matrices. **89i:15001**
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Polotskii, L. I. (*with* Sapir, M. V.; Skornyakov, L. A.) Convex combinations of infinite matrices of mappings. (Russian) **89a:15022**
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Skornyakov, L. A. *see* **Polotskii, L. I.; et al., 89a:15022**
Stuart, Jeffrey L. The solutions to an infinite family of matrix inequalities involving ZME-matrices. **89i:15019**
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Szulc, T. On sign-decomposable and sign-indecomposable matrices. **89f:65055**
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Weaver, James R. Real eigenvalues of nonnegative matrices which commute with a symmetric matrix involution. **89i:15017**
Wu, Ke Qian Matrix $WA + A^tW$ and its applications. **89e:93160**
Yang, Yi Song A matrix trace inequality. **89e:15028**
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15A51 Stochastic matrices

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Shao, Jia Yu (*with* Li, Qiao) On the index of maximum density for irreducible Boolean matrices. **89h:15030**

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15A54 Matrices over function rings in one or more variables

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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

Ammar, Gregory S. Geometric aspects of Hessenberg matrices. **89c:15027**

Andersson, Steen A. (*with* Perlman, Michael D.) Group-invariant analogues of Hadamard's inequality. **89i:15028**

Arbenz, Peter (*with* Golub, Gene H.) On the spectral decomposition of Hermitian matrices modified by low rank perturbations with applications. **89c:15028**

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— (*with* Kirstein, Bernd) A Schur parametrization of nonnegative Hermitian and contractive block matrices and the corresponding maximum entropy problems. **89m:15015**

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— (*with* Schneider, Hans) On Lyapunov scaling factors of real symmetric matrices. **89i:15030**

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Wang, Tian Ming (*with* Ding, Ke Quan) On some solutions of $A^k = J - I$. **89e:15024**
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15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [see also 65F35, 65J05]

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— (*with* T'an, Pi Hsin; Tsing, Nam Kiu) Linear operators preserving the (p, q)-numerical range. **89j:15040**
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— (*with* Tsing, Nam Kiu) Some isometries of rectangular complex matrices. **89g:15031**
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— (*with* Rodman, Leiba) Completion of Toeplitz partial contractions. **89f:47040**
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15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]

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von Höhne, Hans-Joachim On weakly positive unit forms. **89g:15033**
Kurepa, Svetozar On quadratic forms. **89c:15032**
— On the definition of a quadratic form. **89g:15034**
Mączyński, Maciej Axiomatic properties of quadratic forms on vector spaces. **89i:15034**
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15A66 Clifford algebras, spinors

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Haile, Darrell (*with* Tesser, Steven) On Azumaya algebras arising from Clifford algebras. **89j:15044**
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Comay, E. Comments on the charge-monopole canonical formalism. **89f:81095**
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15A69 Multilinear algebra, tensor products

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Beasley, LeRoy B. (*with* Pullman, Norman J.) Operators that preserve semiring matrix functions. **89b:15041**
Bousfield, R. A. A theorem for symmetric n-linear forms. **89j:15047**
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Jinadasa, K. G. Applications of the matrix operators vech and vec. **89e:15039**
Pang, Ming Xian (*with* Sun, Yu Xiang) Two criteria for irreducibility of tensor products of matrices. (Chinese. English summary) **89c:15036**
Pate, Thomas H. Lower bounds for polar and tensor ranks. **89g:15038**
Prószyński, Andrzej ★ Odwzorowania wyższych stopni. (Polish) [Higher-order mappings] **89b:15043**
Pullman, Norman J. *see* **Beasley, LeRoy B., 89b:15041**
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Bhatia, Rajendra The use of multilinear algebra in proving perturbation inequalities for matrices. **89c:15023**
Choudhury, Dipa (*with* Horn, Roger A.; Pierce, Stephen) Quasi-positive definite operators and matrices. **89b:15010**
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15A72 Vector and tensor algebra, theory of invariants

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Bakri, Talal M. Generalized Bezoutians and invariant subspaces. (Not in MR)
Barannik, L. F. (*with* Fushchich, V. I.) Invariants of subgroups of the generalized Poincaré group $P(1,n)$. (Russian) **89d:17003**
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Crilly, Tony The decline of Cayley's invariant theory (1863–1895). (French and German summaries) **89j:01039**
Dixmier, Jacques (*with* Erdős, Paul; Nicolas, J.-L.) Sur le nombre d'invariants fondamentaux des formes binaires. (English summary) [On the number of fundamental invariants of binary forms] **89a:11040**
Erdős, Paul *see* **Dixmier, Jacques; et al., 89a:11040**
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Gordan, Paul ★ Vorlesungen über Invariantentheorie. (German) [Lectures on invariant theory] **89g:01034**
Grosshans, Frank D. Constructing invariant polynomials via Tschirnhaus transformations. **89m:14066**
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Kulkarni, Devadatta M. Analysis of straightening formula. **89i:05025**
Lascoux, Alain Forme canonique d'une forme binaire. (English summary) [The canonical form of a binary form] **89a:12005**
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Yau, Stephen S.-T. Classification of Jacobian ideals invariant by sl(2, C) actions. **89g:32012**

15A75 Exterior algebra, Grassmann algebras

Maksimov, V. M. Representation of matrix algebras of dimension $2^q \times 2^q$ by the crossed product of two Grassmann algebras. (Russian) **89c:15037**

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Marcus, Marvin (*with* Sandy, Markus) Vertex points in the numerical range of a derivation. **89b:15012**
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Vanstone, J. R. Divergence theorems via mixed exterior algebra. **89a:53027**

15A78 Other algebras built from modules

Carmody, Kevin Circular and hyperbolic quaternions, octonions, and sedenions. **89k:15045**
El-Agawany, M. Algèbre mésonique d'une forme multilinéaire symétrique. [Meson algebra of a symmetric multilinear form] **89b:15044**
Shaw, Ronald Ternary vector cross products. **89c:15038**

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Izverceanu, P. N. (*with* Popescu, C.) Applications of polynomial algebras. (Romanian summary) **89f:34010**
Popescu, C. *see* **Izverceanu, P. N., 89f:34010**

15A90 Applications to physics

Siddall, T. H. (*with* Sullivan, J. J.) Substitutional symmetries and extra degeneracies of real symmetric matrices. **89c:15039**
Sullivan, J. J. *see* **Siddall, T. H., 89c:15039**

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Giannozzi, Paolo (*with* Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators. **89g:81111**
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Kwaśniewski, A. K. Clifford and Grassmann like algebras. **89c:15034**
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Moroni, Saverio *see* **Giannozzi, Paolo; et al., 89g:81111**
Novotny, M. A. Equivalence of transfer matrices. **89k:82099**
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Peng, Sheng Yu An application of linear algebra to chemical equations. (Chinese) (Not in MR)
Zeheb, Ezra On polynomials having all zeros in a half strip of the complex plane. **89g:30014**

15A99 Miscellaneous topics

Anderson, W. N. (*with* Trapp, G. E.) Network matrix operations for vectors and quaternions. **89k:15046**
Baartmans, Alphonse *see* **Kim, Jin Bai; et al., 89k:15048**
Bican, L. (*with* Drápal, A.; Kepka, T.) Cancellative relations and matrices. (Russian and Czech summaries) **89b:15045**
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Filipponi, Piero (*with* Horadam, A. F.) A matrix approach to certain identities. **89c:15040**
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Huang, Zhi Qiang (*with* Fang, Hao Jian) Regular fuzzy matrices. (Chinese. English summary) **89k:15047**
Isbell, John Polynomials in modules. I. Vector spaces. **89e:15040**
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Waterhouse, William C. The map behind a binomial coefficient matrix over $\mathbf{Z}/p\mathbf{Z}$. **89c:15042**
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Yu, Guo Jian "Lost efficacy" and "distortion" in fuzzy products and their removal. (Chinese. English summary) **89k:15049**
Yu, Yan Dong Finitely generated fuzzy linear spaces. (Chinese. English summary) **89j:15051**
Zhang, Mou Cheng On graph compatible splittings of M-matrices. **89a:15028**

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(Argoun, M. B.) *see* **Xu, Shi Jie, 89m:93078**
Balinskiĭ, A. I. The Bezout mapping and the connection between the methods of Hermite and Schur in the theory of stability of polynomials. (Russian) **89b:93093**
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Byers, Ralph A bisection method for measuring the distance of a stable matrix to the unstable matrices. **89k:65036**
Čajka, Josef (*with* Pospíšil, Jiří) Sum and product decompositions of the scattering matrix and their realization. (Czech summary) (Not in MR)
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De Moor, Bart (*with* Vandewalle, Joos) An adaptive singular value decomposition algorithm based on generalized Chebyshev recursions. **89e:65043**
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Heatherly, Henry A characterization of infinite dimension for vector spaces. **89k:47005**
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Lazutkin, V. F. The signature of invertible symmetric matrices. **89i:15032**
Lee, Haiyoung (*with* Bien, Zeungnam) Method of computing the inverse of a matrix whose elements are a linear combination of Walsh functions. **89e:15009**
Murota, Kazuo Refined study on structural controllability of descriptor systems by means of matroids. **89g:93005**
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Polasek, W. A dual approach for matrix-derivatives. **89b:62102**
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Praagman, C. Inputs, outputs and states in the representation of time series. **89h:62155**
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Rodman, Leiba *see* **Ran, A. C. M., 89i:47065**
Roux, Delfina (*with* Gotusso, Laura) A counterexample in a linear algebra problem. (Italian. English summary) **89f:65032**
Scedrov, Andre (*with* Scowcroft, Philip) Decompositions of finitely generated modules over $C(X)$: sheaf semantics and a decision procedure. **89c:46095**
Scowcroft, Philip *see* **Scedrov, Andre, 89c:46095**
Seitz, K. Factorization and decomposition properties of matrix semigroups. **89i:20097**
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Shamir, T. Partial realization of symmetric matrix rational functions. **89j:93018**
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Tan, Shaohua (*with* Vandewalle, Joos) Novel theory for polynomial and rational matrices at infinity. I. Polynomial matrices. **89h:15033**
— (*with* Vandewalle, Joos) Novel theory for polynomial and rational matrices at infinity. II. Rational matrices. **89h:15034**
Tarnanen, Hannu On extensions of association schemes. **89i:94050**
Tishin, P. M. A criterion for the stability of partial indices of a circular matrix function. (Russian) **89k:15041**
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16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

Items with secondary classifications in 16–XX

Faradzhev, I. A. Cellular subrings of a symmetric Cartesian square of cellular rings of rank 3. (Ukrainian. Russian summary) (Not in MR)

16–01 Elementary exposition; textbooks

Rowen, Louis H. ★ Ring theory. Vol. I. **89h:16001**
— ★ Ring theory. Vol. II. **89h:16002**

Items with secondary classifications in 16–01

Blyth, T. S. (*with* Robertson, Edmund F.) ★ Abstract algebra. **89b:00001c**
Deschamps, Cl. *see* **Ramis, E.; et al., 89f:00003**
Godement, Roger ★ Cours d'algèbre. (French) [Course in algebra] **89b:00002**
Odoux, J. *see* **Ramis, E.; et al., 89f:00003**
Onishchik, A. L. (*with* Sulanke, Rolf) ★ Algebra und Geometrie. 2. (German) [Algebra and geometry. 2] **89c:00001**
Ramis, E. (*with* Deschamps, Cl.; Odoux, J.) ★ Algèbre. (French) [Algebra] **89f:00003**
Robertson, Edmund F. *see* **Blyth, T. S., 89b:00001c**
Sulanke, Rolf *see* **Onishchik, A. L., 89c:00001**

16–02 Advanced exposition (research surveys, monographs, etc.)

Bokut′, L. A. Some new results in the combinatorial theory of rings and groups. **89m:16001**
— (*with* L′vov, I. V.; Kharchenko, V. K.) Noncommutative rings. (Russian) **89j:16001**
Kharchenko, V. K. *see* **Bokut′, L. A.; et al., 89j:16001**
L′vov, I. V. *see* **Bokut′, L. A.; et al., 89j:16001**

Items with secondary classifications in 16–02

Bakhturin, Yu. A. (*with* Budkin, A. I.; Volokov, M. V.; et al.) ★ Многообразия алгебраических систем. (Russian) [Varieties of algebraic systems] **89c:17001**
— (*with* Ol′shanskiĭ, A. Yu.) Identities. (Russian) **89j:08001**
Budkin, A. I. *see* **Bakhturin, Yu. A.; et al., 89c:17001**
McConnell, J. C. (*with* Robson, J. C.) ★ Noncommutative Noetherian rings. **89j:16023**
Ol′shanskiĭ, A. Yu. *see* **Bakhturin, Yu. A., 89j:08001**
Robson, J. C. *see* **McConnell, J. C., 89j:16023**
(Small, L. W.) *see* **McConnell, J. C., 89j:16023**
Volokov, M. V. *see* **Bakhturin, Yu. A.; et al., 89c:17001**

16–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 16–03

(Grassmann, Hermann) *see* **Schlote, Karl-Heinz, 89d:01044**
Kleiner, Israel A sketch of the evolution of (noncommutative) ring theory. **89d:01043**
Márki, L. (*with* Wiegandt, R.) Basic concepts of Kurosh-Amitsur radicals in various structures, a historical survey. **89e:16017**
Schlote, Karl-Heinz Hermann Grassmanns Beitrag zur Algebrentheorie. [Hermann Grassmann's contribution to the theory of algebras] **89d:01044**
Wiegandt, R. *see* **Márki, L., 89e:16017**

16–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 16–04

Terada, Itaru An algorithm to compute the dimensions of algebras A and A-modules from their generators and relations. **89h:16032**
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16–06 Proceedings, conferences, etc.

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16A02 Integral domains, unique factorization domains (noncommutative)

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16A03 Graded algebras, rings and modules

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Awami, Mohamed A. (*with* Van Oystaeyen, F.) On filtered rings with Noetherian associated graded rings. **89g:16001**
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16A04 Noncommutative principal ideal rings, rings with a division algorithm

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Kolikov, K. Crossed products which are rings of principal ideals. (Russian) **89b:16010**
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16A05 Skew polynomial rings, power series rings

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Ferrero, Miguel Radicals of skew polynomial rings and skew Laurent polynomial rings. **89d:16001**
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16A06 Free algebras, free ideal rings (firs) and their generalizations [see also tensor algebra in 15A72]

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16A08 Rings of quotients, noncommutative localization

Ara, Pere Centers of maximal quotient rings. **89f:16006**
Braun, Amiram Localization in Noetherian p.i. rings as a finite criterion. **89e:16007**
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García Hernández, José Luis Prime and QF-3 quotient rings. (Spanish. English summary) **89j:16004**
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16A10 Noncommutative local rings

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16A12 Prime and semiprime rings

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16A14 Noncommutative analogues of Dedekind and Prüfer domains

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Fujita, Hisaaki An idealizer with respect to a link between maximal ideals. **89f:16008**

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16A15 Other generalizations of commutative rings {For commutativity theorems, see 16A70.}

Brown, K. A. (*with* Hajarnavis, C. R.) Injectively homogeneous rings. **89g:16007**

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16A16 Separable algebras, Azumaya algebras and their generalizations [see also 12Gxx, 13A20]

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— Products of Azumaya rings and Kochen's map. **89k:16008**

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16A70 Commutativity theorems

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16A74 Galois theory

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16A80 Topological rings and modules [see also 13Jxx]

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Koh, Kwangil *see* **Cohen, Jo-Ann, 89j:16057**
Kokk, A. Description of the homomorphisms of topological module-algebras. (Russian. English and Estonian summaries) **89a:16058**
Yao, Mu Sheng Linearly compact modules over perfect rings. (Chinese) (Not in MR)

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Hartmann, P. Stellen und Topologien von Schiefkörpern und Alternativkörpern. [Places and topologies of skew fields and alternative fields] **89k:12013**
Jansen, Willem G. *see* **Zelmanowitz, J. M., 89f:16029**
Menini, Claudia (*with* Orsatti, Adalberto) The basic ring of a locally Artinian category and applications. **89a:18012**
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Pérez Esteban, Dionisio Semi-rings and spectral spaces. **89i:08010**
Simmons, Harold The semiring of topologizing filters of a ring. **89d:16038**
Zelmanowitz, J. M. (*with* Jansen, Willem G.) ★ Duality for module categories. **89f:16029**

16A86 Ordered rings [see also 06F25]

Guo, Jin Bao *see* **Tang, Guo Ping**, (Not in MR)
Tang, Guo Ping (*with* Guo, Jin Bao) On orders in regular rings. (Chinese) (Not in MR)

Items with secondary classifications in 16A86

Kijima, Daiji Cuts of ordered fields. **89k:12015**
Medvedev, N. Ya. On the theory of lattice-ordered rings. (Russian) **89a:06043**

16A89 Equivalence of module categories

Fuller, Kent R. (*with* Hutchinson, George) Exact embedding functors and left coherent rings. **89k:16075**
Gregorio, E. Generalized Morita equivalence for linearly topologized rings. **89k:16076**
Hutchinson, George *see* **Fuller, Kent R., 89k:16075**
Kyuno, Shoji (*with* Smith, Mi-Soo B.; Nobusawa, Nobuo) Closed ideals in nonunital matrix rings.. **89f:16060**
Nobusawa, Nobuo On Morita pairs of rings. **89f:16061**
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Green, E. L. Disjoint ideals. **89i:16026**
Guo, Jin Yun *see* **Liu, Shao Xue; et al., 89c:16008**
Liu, Shao Xue (*with* Luo, Yun Lun; Tang, Ai Ping; Xiao, Jie; Guo, Jin Yun) Some results on modules and rings. **89c:16008**
Luo, Yun Lun *see* **Liu, Shao Xue; et al., 89c:16008**
Menini, Claudia (*with* Orsatti, Adalberto) The basic ring of a locally Artinian category and applications. **89a:18012**
— (*with* Năstăsescu, Constantin) When is R-**gr** equivalent to the category of modules? **89f:16002**
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Nicholson, W. K. (*with* Watters, J. F.) Morita context functors. **89g:16050**
— (*with* Watters, J. F.) Rings with projective socle. **89h:16025**
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Xu, Ke Jian Morita equivalence and Grothendieck groups. (Chinese. English summary) **89j:18011**

16A90 Categorical methods and categorical ring theory

Auslander, Maurice (*with* Reiten, Idun) Almost split sequences for abelian group graded rings. **89d:16049**
Nicholson, W. K. (*with* Watters, J. F.) Morita context functors. **89g:16050**
Reiten, Idun *see* **Auslander, Maurice, 89d:16049**
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Crawley-Boevey, W. W. On tame algebras and bocses. **89c:16028**
Fay, Temple H. Compact modules. **89m:16051**
Gruenberg, K. W. (*with* Roggenkamp, K. W.) The geometry of homogeneous extension categories. **89e:16044**
Héaulme, François Modules purs-semi-simples. [Pure-semisimple modules] **89m:16058**
Hoshino, Mitsuo (*with* Miyachi, Jun-ichi) Tame two-point algebras. **89e:16045**
Miyachi, Jun-ichi *see* **Hoshino, Mitsuo, 89e:16045**
Prest, Mike Duality and pure-semisimple rings. **89m:16059**
Roggenkamp, K. W. *see* **Gruenberg, K. W., 89e:16044**
Whelan, E. A. An infinite construction in ring theory. **89i:16018**

16A99 Miscellaneous topics

Cherubini, Alessandra (*with* Varisco, Ada) On E_k-rings. **89e:16055**
Feigelstock, Shalom Some embedding theorems for rings. **89j:16058**
Pan, Fu Zheng Fuzzy quotient modules. **89k:16077**
Sun, Feng Jiu^2 Direct sums of pointwise fuzzy modules. (Chinese. English summary) **89i:16037**
Swamy, K. L. N. *see* **Swamy, U. M., 89f:16062**
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Zhang, Yue Prime L-fuzzy ideals and primary L-fuzzy ideals. (Chinese. English summary) (Not in MR)
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Bruner, Robert An example in the cohomology of augmented algebras. **89i:55013**
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Verschoren, A. *see* **Awami, Mohamed A., 89f:54025**

17–XX Nonassociative rings and algebras

17–01 Elementary exposition; textbooks

Bourbaki, Nicolas ★ Lie groups and Lie algebras. Chapters 1–3. **89k:17001**
(Jones, Gareth A.) *see* **Serre, Jean-Pierre, 89b:17001**
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17–03 Historical (must also be assigned at least one classification number from Section 01)

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17–04 Explicit machine computation and programs (not the theory of computation or programming)

Cecchini, R. (*with* Tarlini, M.) Symbolic Lie algebras manipulations using COMMON LISP. **89k:17002**
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17–06 Proceedings, conferences, etc.

Items with secondary classifications in 17–06

(Goddard, Peter) *see* **Kac-Moody and Virasoro algebras, 89f:17022**
(Olive, D. I.) *see* **Kac-Moody and Virasoro algebras, 89f:17022**

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  Combinatorial Theory and Related Topics ★ Kumiawase ron to sono shuhen no kenkyu. (Japanese) [Combinatorial theory and related topics] **89k:05002**

17Axx General nonassociative rings

17A01 General theory

Finston, David R. (*with* Röhrl, Helmut) Nomial homomorphisms of arbitrary algebras. **89k:17004**
Hirzebruch, U. Ein Einfachheitskriterium für nicht-assoziative Algebren. (English summary) [A simplicity criterion for nonassociative algebras] **89c:17002**
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17A05 Power-associative

Babkov, O. K. Degeneration of special algebraic extensions of algebras over a field of characteristic zero. (Russian) **89k:17005**

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17A10 Commutative power-associative

Items with secondary classifications in 17A10

Lee, Sin-Min On automorphism groups of nonassociative Boolean rings. **89d:06024**

17A15 Noncommutative Jordan algebras

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17A20 Flexible algebras

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17A30 Algebras satisfying other identities

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Bieszk, Leon On some classification of the anticommutative real three-dimensional algebras. **89e:17001**
Carini, Luisa (*with* Hentzel, Irvin R.; Piacentini Cattaneo, Giulia Maria) Degree four identities not implied by commutativity. **89c:17005**
Dehornoy, Patrick Algebraic properties of the shift mapping. **89k:17006**
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Corrigan, E. (*with* Hollowood, T. J.) A string construction of a commutative nonassociative algebra related to the exceptional Jordan algebra. **89i:81106**
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Lee, Sin-Min On automorphism groups of nonassociative Boolean rings. **89d:06024**
Mizuhara, Akira On the radical of a left symmetric algebra. III. **89c:17008**
Stevens, Rick L. Challenge problems from nonassociative rings for theorems provers. (*see* **89c:68004**)
Vladimirova, Lyubov A. On the weak polynomial identities. **89k:16035**

17A35 Division algebras

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Çiftüci, Suleyman (*with* Kaya, Rustem; Ferrar, Joseph C.) On 4-transitivity in the Moufang plane. **89f:51015**
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Evans, J. M. Supersymmetric Yang-Mills theories and division algebras. **89f:81096**
Ferrar, Joseph C. *see* **Çiftüci, Suleyman; et al., 89f:51015**
Foot, R. (*with* Joshi, G. C.) Remark concerning the twistor formulation of a massless particle, and the division algebras. **89m:81074**
Goddard, Peter (*with* Nahm, Werner; Olive, D. I.; Ruegg, H.; Schwimmer, Adam) Fermions and octonions. **89g:17014**
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Olive, D. I. *see* **Goddard, Peter; et al., 89g:17014**
Rema, P. S. *see* **Balachandran, V. K.; et al., 89d:17029**
Rigas, A. An elementary section of a bundle. **89d:55039**
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Schwimmer, Adam *see* **Goddard, Peter; et al., 89g:17014**
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Sweet, L. G. (*with* MacDougall, J. A.) Four-dimensional homogeneous algebras. **89c:17003**
Troost, W. *see* **Englert, F.; et al., 89i:17016**
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17A36 Automorphisms, derivatives, other operators

Myasnikov, A. G. Elementary theories and abstract isomorphisms of finite-dimensional algebras and unipotent groups. **89b:17004**
Suh, Tae-il Nucleus of nonassociative rings with an invertible or nilpotent valued derivation. **89j:17002**

Items with secondary classifications in 17A36

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Walcher, Sebastian On derivations of simple algebras. **89b:17002**

17A40 Ternary compositions

Asano, Hiroshi (*with* Kaneyuki, Soji) On compact generalized Jordan triple systems of the second kind. **89k:17010**
Hopkins, Nora C. Decomposition of Lie module triple systems. **89c:17007**
— On the derivation algebras of Lie module triple systems. **89a:17002**
Kaneyuki, Soji *see* **Asano, Hiroshi, 89k:17010**
Kerov, S. V. *see* **Vershik, A. M., 89k:17011**
Schwarz, Thomas J. E. Triple systems with composition forms. **89j:17003**
Vershik, A. M. (*with* Kerov, S. V.) Characters and realizations of representations of the infinite-dimensional Hecke algebra, and knot invariants. **89k:17011**

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17A42 Other n-ary compositions

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Myung, Hyo Chul (*with* Sagle, Arthur A.) On the construction of reductive Lie-admissible algebras. **89k:17057**
Sagle, Arthur A. *see* **Myung, Hyo Chul, 89k:17057**
Sharma, Ram Binod (*with* Singh, Prahlad) Some theorems concerning quasidivision rings. **89d:17001**
Singh, Prahlad *see* **Sharma, Ram Binod, 89d:17001**

17A45 Quadratic algebras (not quadratic Jordan algebras)

Röhrl, Helmut (*with* Walcher, Sebastian) Algebras of complexity one. **89i:17004**
Walcher, Sebastian *see* **Röhrl, Helmut, 89i:17004**

17A50 Free algebras

Griffing, Gary The cofree nonassociative coalgebra. **89k:17012**

Items with secondary classifications in 17A50

Dehornoy, Patrick Algebraic properties of the shift mapping. **89k:17006**
Pagon, Dušan Bases and deformations of some Lie algebras. (Russian) **89m:17047**

17A60 Structure theory in general nonassociative rings

Slin′ko, A. M. Nonassociative topological bimodules. **89b:17005**

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Finston, David R. (*with* Röhrl, Helmut) Nomial homomorphisms of arbitrary algebras. **89k:17004**
Hirzebruch, U. Ein Einfachheitskriterium für nicht-assoziative Algebren. (English summary) [A simplicity criterion for nonassociative algebras] **89c:17002**
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Röhrl, Helmut *see* **Finston, David R., 89k:17004**
Sweet, L. G. (*with* MacDougall, J. A.) On automorphisms of order three of division algebras. **89j:17001**

17A65 Radical theory in general nonassociative rings

Chen, Wei Xin α-unity elements and α-division rings for Γ-rings. (Chinese. English summary) **89b:17006**
Mizuhara, Akira On the radical of a left symmetric algebra. III. **89c:17008**

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Liu, Shao Xue Recent research work on radicals in China. **89e:16015**
Márki, L. (*with* Wiegandt, R.) Basic concepts of Kurosh-Amitsur radicals in various structures, a historical survey. **89e:16017**
Sands, A. D. Radical properties and one-sided ideals. **89d:16012**
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17A70 Super algebras

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Balinskiĭ, A. A. Classification of simple Lie superalgebras of Virasoro, Neveu-Schwarz and Ramond type. (Russian) **89c:17009**
Beckers, J. (*with* Dehin, D.; Hussin, V.) On the Heisenberg and orthosymplectic superalgebras of the harmonic oscillator. **89m:17002**
Brini, Andrea (*with* Palareti, Aldopaolo; Teolis, Antonio G. B.) Gordan-Capelli series in superalgebras. **89b:17007**
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Dehin, D. *see* **Beckers, J.; et al., 89m:17002**
El-Agawany, M. (*with* Micali, Artibano) Superalgèbres de Lie et le théorème de Poincaré-Birkhoff-Witt. (English summary) [Lie superalgebras and the Poincaré-Birkhoff-Witt theorem] **89h:17002**
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Hegazi, Ahmed Sadek *see* **Czichowski, Günter, 89k:17013**
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Jarvis, P. D. (*with* Yang, Mei; Wybourne, B. G.) Generalized quasispin for supergroups. **89a:17003**
Kac, Victor G. (*with* van de Leur, J. W.) Super boson-fermion correspondence. (French summary) **89i:17006**
Kamupingene, A. H. (*with* Antonov, N. A.) Generalized Hermitian representations of the Lie superalgebra sl(1, 3). (Russian summary) **89i:17007**
Kwon, P. (*with* Villasante, M.) Casimir operators for massless representations of the super-Poincaré algebra and the reduction of the ten-dimensional massless scalar superfield. **89j:17005**
van de Leur, J. W. *see* **Kac, Victor G., 89i:17006**
Micali, Artibano *see* **El-Agawany, M., 89h:17002**
Mitra, Bani Finite-dimensional indecomposable representations of the generalised Lie algebras. **89a:17004**
Palareti, Aldopaolo *see* **Brini, Andrea; et al., 89b:17007**
Palev, T. D. Finite-dimensional irreducible representations of the special linear Lie superalgebra sl$(1,n)$. **89c:17010**
Scheunert, Manfred Invariant supersymmetric multilinear forms and the Casimir elements of P-type Lie superalgebras. **89b:17008**
Sharma, Veena (*with* Tripathy, K. C.) Satake diagrams, Iwasawa and Langlands decompositions of classical Lie superalgebras $A(m,n)$, $B(m,n)$ and $D(m,n)$. **89m:17003**
Shnider, Steven The superconformal algebra in higher dimensions. **89m:17004**
Shtern, A. S. Representations of an exceptional Jordan superalgebra. (Russian) **89b:17009**
Teolis, Antonio G. B. *see* **Brini, Andrea; et al., 89b:17007**
Tripathy, K. C. *see* **Sharma, Veena, 89m:17003**
Villasante, M. *see* **Kwon, P., 89j:17005**
Wybourne, B. G. *see* **Jarvis, P. D.; et al., 89a:17003**
Yang, Mei *see* **Jarvis, P. D.; et al., 89a:17003**

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de Azcárraga, J. A. (*with* Lukierski, J.) Superfield algebraic structures with Grassmann-valued structure constants. (*see* **89g:81001**)
Baake, Michael Branching rules for unitary representations of Virasoro and super-Virasoro algebras at $c=1$. **89i:17013**
Behr, Erazm J. Enveloping algebras of Lie superalgebras. **89b:17023**
Berele, Allan Cocharacters of $\mathbf{Z}/2\mathbf{Z}$-graded algebras. **89h:16018**
Bergshoeff, Eric (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) $N=8$ supersingleton quantum field theory. **89j:81136**
Castellani, L. String field theory as general relativity of loops. **89m:81131**
Dobrev, V. K. (*with* Ganchev, A. Ch.) Modular invariance for the $N=2$ twisted superconformal algebra. **89b:81183**
Englefield, M. J. Superalgebras and the supersymmetric harmonic oscillator. **89k:81063**
Englert, F. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.; Spindel, Ph.) Loop algebras and superalgebras based on S^7. **89i:17016**
Ezawa, Z. F. (*with* Nakamura, Shigeru; Tezuka, A.) Space-time fermions and superghosts from the bosonic string: generation of $\mathrm{OSp}(9,1|2)\times\mathrm{OSp}(3,3|6)$ affine superalgebra. **89b:81185**
Fairlie, D. B. (*with* Nuyts, J.; Zachos, C. K.) A presentation for the Virasoro and super-Virasoro algebras. **89i:17017**
Floreanini, Roberto (*with* Vinet, Luc) Functional representation of the superconformal group in two dimensions. **89j:81177**
Fradkin, E. S. (*with* Vasil′ev, M. A.) Candidate for the role of higher-spin symmetry. **89h:81085**
Ganchev, A. Ch. *see* **Dobrev, V. K., 89b:81183**
Gourdin, Michel Classification and interpretation of the supertableaux of the orthosymplectic groups OSP$(m|4)$. **89a:22021**
Kac, Victor G. (*with* Wakimoto, Minoru) Modular invariant representations of infinite-dimensional Lie algebras and superalgebras. **89j:17019**
Kent, Adrian (*with* Riggs, Harold) Determinant formulae for the $N=4$ superconformal algebras. **89g:81080**
Kersten, P. H. M. Higher order supersymmetries and fermionic conservation laws of the supersymmetric extension of the KdV equation. **89k:58122**
Khesin, B. A. *see* **Ovsienko, V. Yu., 89g:58095**
Kobayashi, Ken-ichiro (*with* Odake, S.) Fermionic construction of $N=0,1,2$ (super) conformal algebras. **89h:81081**
Konshteĭn, S. E. (*with* Vasil′ev, M. A.) Massless representations and admissibility condition for higher spin superalgebras. **89m:17013**
Lukierski, J. *see* **de Azcárraga, J. A., (89g:81001)**
Mathieu, Pierre Superconformal algebra and supersymmetric Korteweg-de Vries equation. **89c:58052**
Nakamura, Shigeru *see* **Ezawa, Z. F.; et al., 89b:81185**
Nowicki, Anatol Strange superalgebras and description of nonrelativistic spin. **89c:81065**
Nuyts, J. *see* **Fairlie, D. B.; et al., 89i:17017**
Odake, S. *see* **Kobayashi, Ken-ichiro, 89h:81081**
Ouzilou, R. Éléments de géométrie graduée. [Elements of graded geometry] **89a:58011**
Ovsienko, V. Yu. (*with* Khesin, B. A.) The super Korteweg-de Vries equation as an Euler equation. (Russian) **89g:58095**
Palev, T. D. Finite-dimensional representations of the special linear Lie superalgebra sl$(1,n)$. I. Typical representations. **89b:17013**
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Ravanini, Francesco (*with* Yang, Sung-Kil) Modular invariance in $N=2$ superconformal field theories. **89c:17028**
Rcheulishvili, G. L. (*with* Savel′ev, M. V.) Construction of the characteristic integrals for the supersymmetric Toda lattices. **89k:58131**
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Savel′ev, M. V. *see* **Rcheulishvili, G. L., 89k:58131**
Sevrin, A. *see* **Englert, F.; et al., 89i:17016**
Sezgin, E. *see* **Bergshoeff, Eric; et al., 89j:81136**
Spindel, Ph. *see* **Englert, F.; et al., 89i:17016**
Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89j:81136**
Tezuka, A. *see* **Ezawa, Z. F.; et al., 89b:81185**
Troost, W. *see* **Englert, F.; et al., 89i:17016**
Van Proeyen, A. *see* **Englert, F.; et al., 89i:17016**
Vasil′ev, M. A. Extended higher-spin superalgebras and their realizations in terms of quantum operators. **89d:81129**
— *see also* **Fradkin, E. S., 89h:81085** *and* **Konshteĭn, S. E., 89m:17013**
Vinet, Luc *see* **Floreanini, Roberto, 89j:81177**
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Yamanaka, Itaru (*with* Sasaki, Ryu) Super Virasoro algebra and solvable supersymmetric quantum field theories. **89k:81056**
Yang, Sung-Kil *see* **Ravanini, Francesco, 89c:17028**
Yu, Ming The unitary constructions of the $N=4$ SU(2) extended superconformal algebras. **89a:81157**
Zachos, C. K. *see* **Fairlie, D. B.; et al., 89i:17017**

17A75 Composition algebras

Allison, B. N. Tensor products of composition algebras, Albert forms and some exceptional

simple Lie algebras. **89e:17004**
Barucchi, G. Generalized Minkowski metric and composition algebras. (Italian and Russian summaries) **89a:17005**
Bertoluzza, Carlo Some characterizations of associative multiplication laws. (Spanish) **89a:17006**
Faulkner, John R. Finding octonion algebras in associative algebras. **89g:17003**
Gaĭnov, A. T. Orthogonal isotopes of monocomposition algebras. (Russian) **89f:17002**

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Brada, Claude (*with* Pecaut-Tison, Françoise) Géométrie du plan projectif des octaves de Cayley. (English summary) [Geometry of the projective plane of Cayley octaves] **89a:51037**
Pecaut-Tison, Françoise *see* **Brada, Claude, 89a:51037**
Rema, P. S. *see* **Balachandran, V. K.; et al., 89d:17029**
Satyanarayana Murthy, P. V. *see* **Balachandran, V. K.; et al., 89d:17029**

17A99 None of the above, but in this section

Althoen, S. C. (*with* Hansen, Kristina; Kugler, L. D.) C-associative algebras of dimension 4 over R. **89c:17011**
Costovici, Gh. Rings and algebras obtained from other algebraic structures. (Romanian summary) **89m:17005**
Hansen, Kristina *see* **Althoen, S. C.; et al., 89c:17011**
Kugler, L. D. *see* **Althoen, S. C.; et al., 89c:17011**

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Manin, Yu. I. Some remarks on Koszul algebras and quantum groups. (French summary) **89e:16022**
Medvedev, N. Ya. On the theory of lattice-ordered rings. (Russian) **89a:06043**
Rustamov, K. A. (*with* Rustamov, N. A.) A non-Lie algebra that is connected with the Luttinger model. (Russian. English and Azerbaijani summaries) **89k:81206**
Rustamov, N. A. *see* **Rustamov, K. A., 89k:81206**
Shelekhov, A. M. The tangent W_4-algebra of a multidimensional three-web. (Russian) **89f:53027**
Suh, Tae-il Nucleus of nonassociative rings with an invertible or nilpotent valued derivation. **89j:17002**

17Bxx Lie algebras {For Lie groups, see 22Exx.}

Hazewinkel, M. A short tutorial on Lie algebras. **89k:17014**

17B05 Structure theory

Astrakhantsev, V. V. A characteristic property of simple Lie algebras. **89c:17012**
Barannik, A. F. (*with* Fushchich, V. I.) Continuous subgroups of pseudo-orthogonal and pseudo-unitary groups. (Russian) **89m:17006**
Billig, Yu. V. A homomorphic image of a special Lie algebra. (Russian) **89k:17015**
Borcherds, Richard Generalized Kac-Moody algebras. **89g:17004**
Đoković, Dragomir Ž. A generalization of Witt's formulae. **89e:17005**
— Classification of nilpotent elements in simple exceptional real Lie algebras of inner type and description of their centralizers. **89b:17010**
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Geĭn, A. G. Co-atomic lattices and Lie algebras. (Russian) **89i:17008**
Goze, M. Perturbations de lois d'algèbres de Lie. [Perturbations of Lie algebra laws] **89g:17005**
Grunewald, Fritz J. (*with* O'Halloran, Joyce) A characterization of orbit closure and applications. **89j:17006**
Hailat, Mohammad Q. On the structure of Jacobi sets. **89h:17003**
Hilgert, Joachim (*with* Hofmann, Karl Heinrich) Invariant cones in Lie algebras. **89e:17006**
Hofmann, Karl Heinrich *see* **Hilgert, Joachim, 89e:17006**
Lebedenko, V. M. ★ О системах образующих прямых сумм линейных алгебр и прямых произведений групп. (Russian) [Systems for generating direct sums of linear algebras and direct products of groups] **89f:17003**
O'Halloran, Joyce *see* **Grunewald, Fritz J., 89j:17006**
Premet, A. A. Absolute zero divisors in Lie algebras over a perfect field. (Russian. English summary) **89d:17002**
Rousseau, Christiane Elementary characterization of orbits and strata in the classical Lie and Jordan algebras. **89m:17007**
Selim, Taufik Mohamed On maximal subalgebras in classical real Lie algebras. **89a:17007**
Tôgô, Shigeaki Infinite-dimensional algebraic and splittable Lie algebras. **89f:17004**
Turkowski, Paweł Classification of multidimensional spacetimes. **89m:17008**
— Low-dimensional real Lie algebras. **89h:17004**
Varea, Vicente R. Lie algebras none of whose Engel subalgebras are in intermediate position. **89a:17008**

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Bieszk, Leon On some classification of the anticommutative real three-dimensional algebras. **89e:17001**
Đoković, Dragomir Ž. Classification of nilpotent elements in simple real Lie algebras $E_{6(6)}$ and $E_{6(-26)}$ and description of their centralizers. **89k:17022**
Elduque, Alberto On semimodular Mal′cev algebras. **89d:17030**
Farnsteiner, Rolf *see* **Strade, Helmut, 89h:17021**
Fleischer, A. Submanifolds of reductive homogeneous spaces and Lie triple algebras. **89a:53057**
Gambini, Alessandra Algorithms for soluble subalgebras of finite-dimensional Lie algebras. **89k:17003**
Krasil′nikov, A. N. (*with* Shmel′kin, A. L.) Finiteness of the basis of identities of finite-dimensional representations of solvable Lie algebras. **89m:17022**
Molev, A. I. The algebraic structure of the Lie algebra of vector fields on the line. **89a:17023**
Mukunda, N. (*with* Simon, Rajiah; Sudarshan, E. C. G.) On the orbits in the Lie algebras of some (pseudo) orthogonal groups. **89b:22030**
Petravchuk, A. P. Lie algebras that can be decomposed into the sum of an abelian subalgebra and a nilpotent subalgebra. **89m:17023**
Plebański, J. F. (*with* Przanowski, M.) Generalizations of the quaternion algebra and Lie algebras. **89g:22009**
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Rand, D. W. (*with* Winternitz, P.; Zassenhaus, H.) On the identification of a Lie algebra given by its structure constants. I. Direct decompositions, Levi decompositions, and nilradicals. **89i:17001**
Razmyslov, Yu. P. Complexity of varieties of Lie algebras and their representations. **89m:17034**
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Simon, Rajiah *see* **Mukunda, N.; et al., 89b:22030**
Singer, Phyllis E. Products of weight subspaces of Kac-Moody algebras. **89k:17045**
Strade, Helmut (*with* Farnsteiner, Rolf) ★ Modular Lie algebras and their representations. **89h:17021**
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Ustimenko, V. A. Tits geometries and division algebras. **89f:51030**
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Zaĭtsev, M. V. Residual finiteness and the Noethericity of finitely generated Lie algebras. (Russian) **89m:17037**
Zassenhaus, H. *see* **Rand, D. W.; et al., 89i:17001**
Zhang, Zhi Xue Outer automorphisms of finite order of complex semisimple Lie algebras. (Chinese) **89f:17009**

17B10 Representations, algebraic theory (weights)

Altschüler, D. (*with* Lacki, J.; Zaugg, Ph.) The affine Weyl group and modular invariant partition functions. **89c:17014**
Barannik, L. F. (*with* Fushchich, V. I.) Invariants of subgroups of the generalized Poincaré group $P(1,n)$. (Russian) **89d:17003**
Blank, J. (*with* Havlíček, M.) Irreducible $*$-representations of the Lie superalgebras $B(0,n)$ with finite-degenerated vacuum. II. **89m:17009**
Burdík, Č. A new class of realisations of the Lie algebra $\mathrm{so}(q,2n-q)$. **89f:17005**
Capps, Richard H. Representations of E_8 and other algebras. **89b:17011**
— Geometrical classification scheme for weights of Lie algebras. **89h:17005**
Dobrev, V. K. Characters of the irreducible highest weight modules over the Virasoro and super-Virasoro algebras. **89g:17006**
Enright, Thomas J. (*with* Shelton, Brad) Highest weight modules for Hermitian symmetric pairs of exceptional type. **89m:17010**
Feĭgin, B. L. (*with* Frenkel′, È. V.) A family of representations of affine Lie algebras. (Russian) **89k:17016**
Franklin, James Homomorphisms between Verma modules in characteristic p. **89c:17015**
Frenkel′, È. V. *see* **Feĭgin, B. L., 89k:17016**
Fushchich, V. I. *see* **Barannik, L. F., 89d:17003**
Futornyĭ, V. M. On a construction of irreducible representations of semisimple Lie algebras. (Russian) **89a:17009**
Gel′fand, I. M. (*with* Zelevinskiĭ, A. V.) Canonical basis in irreducible representations of $\mathfrak{gl}_3$ and its applications. **89a:17010**
— (*with* Zelevinskiĭ, A. V.) Multiplicities and proper bases for $\mathfrak{gl}_n$. **89a:17011**
Giroux, Y. (*with* Sharp, R. T.) A folk theorem revisited: degenerate representations. **89d:17004**
Havlíček, M. *see* **Blank, J., 89m:17009**
Humi, Mayer Representations and invariant equations of E(3). **89h:17006**
Iosifescu, Mircea (*with* Scutaru, H.) Second-degree kinematical constraints associated with dynamical symmetries. **89m:17011**
Irving, Ronald S. (*with* Shelton, Brad) Loewy series and simple projective modules in the category $\mathscr{O}_S$. **89m:17012a**
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Kirillov, A. N. (*with* Reshetikhin, N. Yu.) Representations of Yangians and multiplicities of the inclusion of the irreducible components of the tensor product of representations of simple Lie algebras. (Russian) **89b:17012**
— Identities for the Rogers dilogarithmic function connected with simple Lie algebras. (Russian. English summary) **89j:17007**
Knyr, V. A. *see* **Smirnov, Yu. F.; et al.,** (**89d:81002**)
Komrakov, B. P. Reductive subalgebras of reductive real Lie algebras. (Russian) (*see* **89d:81002**)
Konshteĭn, S. E. (*with* Vasil′ev, M. A.) Massless representations and admissibility condition for higher spin superalgebras. **89m:17013**
Ku, Jong Min On the uniqueness of embeddings of Verma modules defined by the Shapovalov elements. **89j:17008**
Kumar, Shrawan Proof of the Parthasarathy-Ranga Rao-Varadarajan conjecture. **89j:17009**
Lacki, J. *see* **Altschüler, D.; et al., 89c:17014**
Lev, F. M. Some representations of de Sitter algebras over a finite field and their possible physical interpretation. **89k:17017**
Li, Hai Sheng The relationship between the highest weights and lowest weights of finite-dimensional irreducible modules over semisimple Lie algebras. (Chinese) **89j:17010**
Lu, Cai Hui The construction and classification of a class of integrable modules over the affine Lie algebra $A_1^{(1)}$, not belonging to the category O. (Chinese) **89d:17005**
McKay, W. G. (*with* Moody, R. V.; Patera, J.) Decomposition of tensor products of E_8 representations. **89f:17006**
Moody, R. V. *see* **McKay, W. G.; et al., 89f:17006**

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Panyukov, V. V. Irreducible representations of completely solvable Lie algebras of positive characteristic. **89m:17014**
Patera, J. *see* **McKay, W. G.; et al., 89f:17006**
Quesne, C. Casimir operators of semidirect sum Lie algebras. **89m:17015**
Reshetikhin, N. Yu. *see* **Kirillov, A. N., 89b:17012**
Scutaru, H. *see* **Iosifescu, Mircea, 89m:17011**
Seligman, George B. ★ Constructions of Lie algebras and their modules. **89h:17007**
Sharp, R. T. *see* **Giroux, Y., 89d:17004**
Shelton, Brad Extensions between generalized Verma modules: the Hermitian symmetric cases. **89d:17006**
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Simonyan, L. A. Varieties of representations of Lie algebras. **89f:17007**
Smirnov, Yu. F. (*with* Tolstoĭ, V. N.; Knyr, V. A.; Stotland, L. Ya.) Structure of the representations of the algebra u(2, 1) with an extremal vector. (Russian) (*see* **89d:81002**)
Stotland, L. Ya. *see* **Smirnov, Yu. F.; et al., (89d:81002)**
Stoyanov, D. T. On ladder representations and affinisation of Lie algebras. **89c:17016**
Tolstoĭ, V. N. *see* **Smirnov, Yu. F.; et al., (89d:81002)**
Vasil′ev, M. A. *see* **Konshteĭn, S. E., 89m:17013**
Xu, Chao A computational method to decompose the tensor product of irreducible A_2-modules. (Chinese. English summary) **89j:17011**
Zaugg, Ph. *see* **Altschüler, D.; et al., 89c:17014**
Zelevinskiĭ, A. V. Resolutions, dual pairs and character formulas. (Russian) **89a:17012**
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Zhelobenko, D. P. Reduction algebras and Gel′fand-Zetlin bases. **89m:17016**
— Extremal cocycles on Weyl groups. (Russian) **89g:17007**
— An analogue of the Gel′fand-Tsetlin basis for symplectic Lie algebras. (Russian) **89g:17008**

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Akin, Kaan Representations of GL(n) and Schur algebras. **89k:20055**
Angelopoulos, Evghenios Algèbres de Lie $\mathfrak{g}$ satisfaisant $[\mathfrak{g},\mathfrak{g}]=\mathfrak{g}$, $\operatorname{Der}\mathfrak{g}=\operatorname{ad}\mathfrak{g}$. (English summary) [Lie algebras $\mathfrak{g}$ satisfying $[\mathfrak{g},\mathfrak{g}]=\mathfrak{g}$, $\operatorname{Der}\mathfrak{g}=\operatorname{ad}\mathfrak{g}$] **89k:17020**
Barannik, L. F. (*with* Fushchich, V. I.) Continuous subgroups of generalized Schrödinger groups. (Russian) **89e:22036**
Bergeron, François Combinatorial representations of some Lie groups and Lie algebras. **89h:05011**
Boe, Brian D. Kazhdan-Lusztig polynomials for Hermitian symmetric spaces. **89i:22024**
Borcherds, Richard Generalized Kac-Moody algebras. **89g:17004**
Borho, W. Nilpotent orbits, primitive ideals, and characteristic classes. **89h:22023**
Bracken, A. J. *see* **Fawcett, R. J. B., 89k:81044**
Braden, H. W. On the absence of global anomalies. **89b:81177**
Chari, Vyjayanthi (*with* Pressley, A. N.) Unitary representations of the Virasoro algebra and a conjecture of Kac. **89h:17025**
Cieciura, Grzegorz (*with* Szczyrba, Igor) Physical relations and the Weyl group. **89c:22040**
Collingwood, David H. (*with* Irving, Ronald S.; Shelton, Brad) Filtrations on generalized Verma modules for Hermitian symmetric pairs. **89a:22030**
Corrigan, E. (*with* Hollowood, T. J.) A bosonic representation of the twisted string emission vertex. **89h:81175**
Curtis, Ch. ★ Representation theory of Hecke algebras. **89g:20069**
Cushman, R. (*with* Sanders, J. A.) Invariant theory and normal form of Hamiltonian vectorfields with nilpotent linear part. **89b:58070**
Czichowski, Günter (*with* Hegazi, Ahmed Sadek) Darstellungen von Heisenberg-Lie-Superalgebren. [Representations of Heisenberg-Lie superalgebras] **89k:17013**
Donkin, Stephen On conjugating representations and adjoint representations of semisimple groups. **89a:20047**
Du, Jie Tensor products of Weyl modules of type A_l and their Ext^1-groups. (Chinese. English summary) **89b:20091**
El-Agawany, M. (*with* Micali, Artibano) Superalgèbres de Lie et le théorème de Poincaré-Birkhoff-Witt. (English summary) [Lie superalgebras and the Poincaré-Birkhoff-Witt theorem] **89h:17002**
Enright, Thomas J. Analogues of Kostant's $\mathfrak{u}$-cohomology formulas for unitary highest weight modules. **89m:22022**
Farnsteiner, Rolf *see* **Strade, Helmut, 89h:17021**
Fawcett, R. J. B. (*with* Bracken, A. J.) Simple orthogonal and unitary compact quantum systems and the İnönü-Wigner contraction. **89k:81044**
Feĭgin, B. L. (*with* Fialowski, A.) Cohomology of the infinite-dimensional Lie algebra L_1 with nontrivial coefficients. **89b:17016**
Fialowski, A. *see* **Feĭgin, B. L., 89b:17016**
(Fleischmann, Peter) *see* **Curtis, Ch., 89g:20069**
Frenkel, Igor B. (*with* Lepowsky, J.; Meurman, A.) Vertex operator calculus. (*see* **89m:81001**)
Friedlander, Eric M. (*with* Parshall, Brian J.) Geometry of p-unipotent Lie algebras. **89a:17017**
— (*with* Parshall, Brian J.) Modular representation theory of Lie algebras. **89j:17015**
Fushchich, V. I. *see* **Barannik, L. F., 89e:22036**
Gepner, Doron New conformal field theories associated with Lie algebras and their partition functions. **89b:81188**
Hayashi, Takahiro Sugawara operators and their applications to Kac-Kazhdan conjecture. **89m:17040**
Hazama, Fumio Branching rules and Hodge cycles on certain abelian varieties. **89e:14042**
Hegazi, Ahmed Sadek *see* **Czichowski, Günter, 89k:17013**
Hollowood, T. J. *see* **Corrigan, E., 89h:81175**
Hopkins, Nora C. Decomposition of Lie module triple systems. **89c:17007**
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Istomina, I. F. *see* **Tolstoĭ, V. N.; et al., 89c:17037**
Jantzen, J. C. ★ Representations of algebraic groups. **89c:20001**
— Restricted Lie algebra cohomology. **89h:17023**
— Representations of Chevalley groups in their own characteristic. **89g:20076**
Joseph, Anthony A surjectivity theorem for rigid highest weight modules. **89d:17013**
— Rings which are modules in the Bernstein-Gel′fand-Gel′fand $\mathcal{O}$ category. **89e:17012**
Kamupingene, A. H. (*with* Palev, T. D.) Irreducible finite-dimensional representations of the Lie superalgebra sl(1, 2) in a Gel′fand-Zeitlin basis. (Russian summary) **89a:17030**
Kawanaka, Noriaki Orbits and stabilizers of nilpotent elements of a graded semisimple Lie algebra. **89j:17012**
Kempf, George R. (*with* Ness, Linda) Tensor products of fundamental representations. **89m:20046**
Kent, Adrian (*with* Riggs, Harold) Determinant formulae for the $N=4$ superconformal algebras. **89g:81080**
Kibler, Maurice (*with* Winternitz, P.) Lie algebras under constraints and nonbijective canonical transformations. **89i:58037**
Kim, Wan Soon On the concept of completions and explicit determination of an invariant pairing for general Kac-Moody Lie algebras. **89d:17025**
Knapp, Anthony W. ★ Lie groups, Lie algebras, and cohomology. **89j:22034**
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Koh, I. G. (*with* Yu, Ming) Nonabelian bosonization in higher genus Riemann surfaces. **89h:81201**
Kozerenko, K. V. Invariants of the algebras gl(2) and sl(2) in the case of a field of finite characteristic. **89d:17008**
Krichever, I. M. (*with* Novikov, S. P.) Algebras of Virasoro type, Riemann surfaces and strings in Minkowski space. (Russian) **89f:17020**
Kumar, Shrawan Extension of the category $\mathcal{O}^g$ and a vanishing theorem for the Ext functor for Kac-Moody algebras. **89h:17038**
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Lusztig, G. Leading coefficients of character values of Hecke algebras. **89b:20087**
Marchenko, V. A. Abelian subalgebras of the Schrödinger algebra ASch(4). (Russian) **89e:22038**
McDaniel, Andrew Representations of sl(n, C) and the Toda lattice. **89e:58061**
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Micali, Artibano *see* **El-Agawany, M., 89h:17002**
Michaelis, Walter Properness of Lie algebras and enveloping algebras. II. **89f:17015b**
— Properness of Lie algebras and enveloping algebras. I. **89f:17015a**
Miwa, Tetsuji Integrable lattice models and branching coefficients. **89h:82051**
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Morel, B. (*with* Patera, J.; Sharp, R. T.; Van der Jeugt, Joris) Indices of representations of simple superalgebras. **89f:17024**
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Myung, Hyo Chul (*with* Sagle, Arthur A.) On the construction of reductive Lie-admissible algebras. **89k:17057**
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— *see also* **Kamupingene, A. H., 89a:17030**
Parshall, Brian J. *see* **Friedlander, Eric M., 89a:17017** *and* **89j:17015**
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Patra, M. K. (*with* Tripathy, K. C.) Indecomposable BRS modules. **89f:17026**
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Quesne, C. Boson realisations of Lie algebras and expansion of shift operators. **89b:81067**
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Reutenauer, Christophe Theorem of Poincaré-Birkhoff-Witt, logarithm and symmetric group representations of degrees equal to Stirling numbers. **89i:05029**
Riggs, Harold *see* **Kent, Adrian, 89g:81080**
Sagle, Arthur A. *see* **Myung, Hyo Chul, 89k:17057**
Saito, Kyoji On the existence of exponents prime to the Coxeter number. **89g:32017**
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Sharma, Veena (*with* Tripathy, K. C.) Satake diagrams, Iwasawa and Langlands decompositions of classical Lie superalgebras $A(m,n)$, $B(m,n)$ and $D(m,n)$. **89m:17003**
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Shelton, Brad *see* **Collingwood, David H.; et al., 89a:22030**
Singer, Phyllis E. Products of weight subspaces of Kac-Moody algebras. **89k:17045**
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Strade, Helmut (*with* Farnsteiner, Rolf) ★ Modular Lie algebras and their representations. **89h:17021**
Sussmann, H. J. Product expansions of exponential Lie series and the discretization of stochastic differential equations. **89d:60108**
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Tanisaki, Toshiyuki Hodge modules, equivariant K-theory and Hecke algebras. **89c:20070**

Tiwari, Hemant Kumar Reflection representations of Hecke algebras of certain Weyl groups. **89k:20072**
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Tripathy, K. C. *see* **Patra, M. K., 89f:17026** *and* **Sharma, Veena, 89m:17003**
Turbiner, A. V. Lamé equation, sl(2) algebra and isospectral deformations. **89k:58135**
Van der Jeugt, Joris *see* **Morel, B.; et al., 89f:17024**
Wallach, Nolan R. ★ Real reductive groups. I. **89i:22029**
Wang, Xiao Dong[2] Structures of level two standard modules for $A_{n-1}^{(1)}$. **89j:17022**
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Yau, Stephen S.-T. Classification of Jacobian ideals invariant by sl(2, C) actions. **89g:32012**
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Zeng, Gao Jian Deep connection between C-G coefficients of OSp(1, 2) algebra and that of SO(3) algebra. **89b:17022**

17B15 Representations, analytic theory

Bolsinov, A. V. Involutive families of functions on dual spaces of Lie algebras of type $G \underset{\varphi}{+} V$. (Russian) **89g:17009**
Burdík, Č. *see* **Smirnov, Yu. F.; et al., 89m:17020**
Eguchi, Tohru (*with* Taormina, Anne) On the unitary representations of $N = 2$ and $N = 4$ superconformal algebras. **89k:17019**
Gelashvili, T. M. Projections of representations of Lie algebras. (Russian. English and Georgian summaries) **89m:17017**
Havlíček, M. *see* **Smirnov, Yu. F.; et al., 89m:17020**
Le Blanc, Richard (*with* Rowe, D. J.) The matrix representations of g_2. I. Representations in an so(4) basis. **89m:17018**
— (*with* Rowe, D. J.) The matrix representations of g_2. II. Representations in an su(3) basis. **89m:17019**
Robinson, Derek W. Integration of Lie algebras. **89d:17007**
Rowe, D. J. *see* **Le Blanc, Richard, 89m:17018** *and* **89m:17019**
Sakharuk, A. A. *see* **Smirnov, Yu. F.; et al., 89m:17020**
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Vilonen, K. *see* **Mirollo, R. E., 89e:32017**

17B20 Simple, semisimple, reductive algebras (roots)

Angelopoulos, Evghenios Algèbres de Lie $\mathfrak{g}$ satisfaisant $[\mathfrak{g}, \mathfrak{g}] = \mathfrak{g}$, $\mathrm{Der}\,\mathfrak{g} = \mathrm{ad}\,\mathfrak{g}$. (English summary) [Lie algebras $\mathfrak{g}$ satisfying $[\mathfrak{g}, \mathfrak{g}] = \mathfrak{g}$, $\mathrm{Der}\,\mathfrak{g} = \mathrm{ad}\,\mathfrak{g}$] **89k:17020**
Arcuri, R. (*with* Gomes, J. F.; Olive, D. I.) Conformal subalgebras and symmetric spaces. **89a:17013**
Barannik, L. F. Subalgebras of the generalized extended Galilei algebra. (Russian) **89k:17021**
Beerends, R. J. Combinatorial identities on root systems and the Fourier transform of Harish-Chandra's *c*-function. **89c:17017**
Borho, W. (*with* Brylinski, Jean-Luc; MacPherson, R.) Springer's Weyl group representations through characteristic classes of cone bundles. **89g:17010**
Brylinski, Jean-Luc *see* **Borho, W.; et al., 89g:17010**
Carter, R. W. Raising and lowering operators for $\mathfrak{sl}_n$, with applications to orthogonal bases of $\mathfrak{sl}_n$-modules. **89h:17008**
Coleman, A. J. The top root of a simple Lie algebra. **89h:17009**
Đoković, Dragomir Ž. Classification of nilpotent elements in simple real Lie algebras $E_{6(6)}$ and $E_{6(-26)}$ and description of their centralizers. **89k:17022**
Gomes, J. F. *see* **Arcuri, R.; et al., 89a:17013**
Kawanaka, Noriaki Orbits and stabilizers of nilpotent elements of a graded semisimple Lie algebra. **89j:17012**
Khakimdzhanov, Yu. B. Cohomologies et déformations de certaines algèbres de Lie nilpotentes. [Cohomology and deformations of certain nilpotent Lie algebras] **89k:17023**
Kozerenko, K. V. Invariants of the algebras gl(2) and sl(2) in the case of a field of finite characteristic. **89d:17008**
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Olive, D. I. *see* **Arcuri, R.; et al., 89a:17013**
Razmislov, Yu. P. Constructive reconstruction of a smooth affine algebraic variety from its Lie algebra of vector fields, and simple Lie algebras satisfying a standard identity of degree 5. (Ukrainian. Russian summary) **89e:17007**
Richardson, R. W. Derivatives of invariant polynomials on a semisimple Lie algebra. **89e:17008**
Skryabin, S. M. Isomorphisms and differentiation of modular Lie algebras of Cartan type. (Russian) **89f:17008**
Wilson, Robert Lee Simple Lie algebras over fields of prime characteristic. **89d:17009**
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Zhang, Zhi Xue Outer automorphisms of finite order of complex semisimple Lie algebras. (Chinese) **89f:17009**
Zhelobenko, D. P. Extremal projectors and generalized Mickelsson algebras on reductive Lie algebras. **89m:17021**

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Borho, W. Nilpotent orbits, primitive ideals, and characteristic classes (a survey). **89d:17012**
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Collingwood, David H. Representations of rank one Lie groups. II. *n*-cohomology. **89i:22031**
Cushman, R. (*with* Sanders, J. A.) Invariant theory and normal form of Hamiltonian vectorfields with nilpotent linear part. **89b:58070**
Garvan, F. G. A beta integral associated with the root system G_2. **89k:33002**
Hahn, Jörg Isotropy representations of semisimple symmetric spaces and homogeneous hypersurfaces. **89h:53108**
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Ivanov, D. N. Orthogonal decompositions of semisimple associative algebras. **89f:16025**
(Jones, Gareth A.) *see* **Serre, Jean-Pierre, 89b:17001**
Kluitmann, Paul ★ Ausgezeichnete Basen erweiterter affiner Wurzelgitter. (German) [Distinguished bases of extended affine root lattices] **89g:32015**
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Leger, G. F. (*with* Manley, P. L.) Dimensionally nilpotent Lie algebras. **89h:17012**
Liu, Chen On generators and relations of simple groups of Lie type. **89k:20059**
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McDaniel, Andrew Representations of sl(n, C) and the Toda lattice. **89e:58061**
McMullen, John Roderich Duality for compact connected groups and semisimple Lie algebras. (Italian summary) **89f:22006**
Meixner, Thomas Folding down classical Tits chamber systems. **89g:20077**
Nishiyama, Kyo Generators and relations for a certain Hecke algebra. **89b:20104**
Ol′shanetskiĭ, M. A. *see* **Markushevich, D. G.; et al., 89a:83061**
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Premet, A. A. Absolute zero divisors in Lie algebras over a perfect field. (Russian. English summary) **89d:17002**
Razmyslov, Yu. P. Simple Lie algebras in varieties generated by Lie algebras of Cartan type. **89h:17020**
Saito, Kyoji On the existence of exponents prime to the Coxeter number. **89g:32017**
Sanders, J. A. *see* **Cushman, R., 89b:58070**
Seligman, George B. ★ Constructions of Lie algebras and their modules. **89h:17007**
Serre, Jean-Pierre ★ Complex semisimple Lie algebras. **89b:17001**
Singer, Phyllis E. Products of weight subspaces of Kac-Moody algebras. **89k:17045**
Slebarski, Stephen The Dirac operator on homogeneous spaces and representations of reductive Lie groups. III. **89f:22022**
Tits, J. Uniqueness and presentation of Kac-Moody groups over fields. **89b:17020**
Tiwari, Hemant Kumar Reflection representations of Hecke algebras of certain Weyl groups. **89k:20072**
Vavilov, N. A. Bruhat decomposition for long root semisimple elements in Chevalley groups. (Russian) **89k:20057**
Wallach, Nolan R. A class of nonstandard modules for affine Lie algebras. **89c:17035**
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Zhelobenko, D. P. An analogue of the Gel′fand-Tsetlin basis for symplectic Lie algebras. (Russian) **89g:17008**

17B25 Exceptional algebras

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Allison, B. N. Tensor products of composition algebras, Albert forms and some exceptional simple Lie algebras. **89e:17004**
Brada, Claude (*with* Pecaut-Tison, Françoise) Géométrie du plan projectif des octaves de Cayley. (English summary) [Geometry of the projective plane of Cayley octaves] **89a:51037**
Capps, Richard H. Representations of E_8 and other algebras. **89b:17011**
Cummins, C. J. (*with* Patera, J.) Polynomial icosahedral invariants. **89h:20023**
Đoković, Dragomir Ž. Classification of nilpotent elements in simple exceptional real Lie algebras of inner type and description of their centralizers. **89b:17010**
Gagnon, L. (*with* Hussin, V.; Winternitz, P.) Nonlinear equations with superposition formulas and exceptional group G_2. III. The superposition formulas. **89j:58117**
Gilkey, Peter B. (*with* Seitz, Gary M.) Some representations of exceptional Lie algebras. **89h:20056**
Hollowood, T. J. (*with* Myhill, R. G.) The 112 breakings of E_8. **89m:17041**
Hussin, V. *see* **Gagnon, L.; et al., 89j:58117**
Kogan, Ya. I. (*with* Morozov, A. Yu.; Ol′shanetskiĭ, M. A.; Shifman, M. A.) The construction of valleys in a supersymmetric model with gauge group E_6 and a matter 27-plet. **89a:81171**
Morozov, A. Yu. *see* **Kogan, Ya. I.; et al., 89a:81171**
Myhill, R. G. *see* **Hollowood, T. J., 89m:17041**
Ol′shanetskiĭ, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171**
Patera, J. *see* **Cummins, C. J., 89h:20023**
Pecaut-Tison, Françoise *see* **Brada, Claude, 89a:51037**
Schwarz, Gerald W. Invariant theory of G_2 and Spin_7. **89k:14080**
Seitz, Gary M. *see* **Gilkey, Peter B., 89h:20056**
Shifman, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171**
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17B30 Solvable, nilpotent algebras

Ancochéa-Bermúdez, José María (*with* Goze, M.) Classification des algèbres de Lie

filiformes de dimension 8. [Classification of filiform Lie algebras of dimension 8] **89h:17010**
Artamonov, V. A. Projective modules over nilpotent Lie algebras. (Ukrainian. Russian summary) **89e:17009**
Chanyshev, A. D. 2-generated Engel Lie algebras over the field F_2. **89k:17024**
Goze, M. *see* **Ancochéa-Bermúdez, José María, 89h:17010**
Grunewald, Fritz J. (*with* O'Halloran, Joyce) Varieties of nilpotent Lie algebras of dimension less than six. **89c:17018**
Kawski, Matthias Nilpotent Lie algebras of vectorfields. **89h:17011**
Krasil′nikov, A. N. (*with* Shmel′kin, A. L.) Finiteness of the basis of identities of finite-dimensional representations of solvable Lie algebras. **89m:17022**
Kukin, G. P. Letter to the editors: "Algorithmic problems for solvable Lie algebras" [Algebra i Logika **17** (1978), no. 4, 402–415; MR 80h:17017]. (Russian) **89i:17009**
Latishev, V. M. An algorithm for equality in Lie nilpotent associative algebras. (Ukrainian. Russian summary) **89f:17010**
Leger, G. F. (*with* Manley, P. L.) Dimensionally nilpotent Lie algebras. **89h:17012**
Manley, P. L. *see* **Leger, G. F., 89h:17012**
Nomura, Takaaki Existence of a noninductive linear form on certain solvable Lie algebras. **89a:17014**
O'Halloran, Joyce *see* **Grunewald, Fritz J., 89c:17018**
Petravchuk, A. P. Lie algebras that can be decomposed into the sum of an abelian subalgebra and a nilpotent subalgebra. **89m:17023**
Shmel′kin, A. L. *see* **Krasil′nikov, A. N., 89m:17022**
Stitzinger, Ernest L. Subinvariance in solvable Lie algebras. II. **89h:17013**
Zhou, Ru Qi DI-Lie algebras with ad-nilpotent elements. (Chinese. English summary) **89k:17025**

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Bergen, Jeffrey Constants of Lie algebra actions. **89c:16048**
Brown, K. A. (*with* du Cloux, Fokko) On the representation theory of solvable Lie algebras. **89k:17026**
Bryant, Roger M. Automorphism groups of nilpotent Lie algebras. **89b:20093**
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Golovanov, M. I. On the degree of nilpotency of 4-Engel Lie rings. (Russian) **89b:17018**
Grunewald, Fritz J. (*with* O'Halloran, Joyce) A characterization of orbit closure and applications. **89j:17006**
Hermes, Henry Distributions and the Lie algebras their bases can generate. **89k:58016**
Khakimdzhanov, Yu. B. Cohomologies et déformations de certaines algèbres de Lie nilpotentes. [Cohomology and deformations of certain nilpotent Lie algebras] **89k:17023**
Kostrikin, Alekseĭ Ivanovich ★ Вокруг Бернсайда. (Russian) [Around Burnside] **89d:20032**
Mizuhara, Akira On the radical of a left symmetric algebra. III. **89c:17008**
O'Halloran, Joyce *see* **Grunewald, Fritz J., 89j:17006**
Plebański, J. F. (*with* Przanowski, M.) Generalizations of the quaternion algebra and Lie algebras. **89g:22009**
Prado, Humberto Spectral properties for operators in a Lie algebra. **89k:22012**
Przanowski, M. *see* **Plebański, J. F., 89g:22009**
Radjavi, H. The Engel-Jacobson theorem revisited. **89b:17014**
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Tauvel, Patrice Dimension de Krull de certaines algèbres enveloppantes. (English summary) [Krull dimension of some enveloping algebras] **89b:16027**
Turovskiĭ, Yu. V. Commutativity modulo the Jacobson radical of the associative envelope of a Lie algebra. (Russian) **89e:17016**
Yau, Stephen S.-T. Classification of Jacobian ideals invariant by $\mathrm{sl}(2,\mathbf{C})$ actions. **89g:32012**

17B35 Universal enveloping algebras, imbeddings

Bakhturin, Yu. A. *PI*-envelopes of finite-dimensional Lie algebras. (Ukrainian. Russian summary) **89d:17011**
Bergen, Jeffrey (*with* Montgomery, S.; Passman, D. S.) Radicals of crossed products of enveloping algebras. **89c:17019**
Borho, W. Nilpotent orbits, primitive ideals, and characteristic classes (a survey). **89d:17012**
Brown, K. A. (*with* du Cloux, Fokko) On the representation theory of solvable Lie algebras. **89k:17026**
Chin, William Prime ideals in restricted differential operator rings. **89e:17010**
du Cloux, Fokko *see* **Brown, K. A., 89k:17026**
Dahlberg, Randall P. Injective hulls of simple $\mathrm{sl}(2,\mathscr{C})$ modules are locally Artinian. **89m:17024**
Dean, Carolyn Anne Nonembeddable factors of the enveloping algebras of semisimple Lie algebras. **89k:17027**
Douglass, J. Matthew (*with* Shelton, Brad) On matrix coefficients of the reflection representation. **89e:17011**
Dyer, Matthew On some generalisations of the Kazhdan-Lusztig polynomials for "universal" Coxeter systems. **89f:17011**
Feigin, B. L. (*with* Tsygan, B. L.) Cyclic homology of algebras with quadratic relations, universal enveloping algebras and group algebras. **89c:17020**
Feinsilver, Philip Discrete analogues of the Heisenberg-Weyl algebra. **89j:17013**
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Irving, Ronald S. The socle filtration of a Verma module. **89h:17015**
Jantzen, J. C. Primitive ideals in the enveloping algebra of a semisimple Lie algebra. **89c:17021**
Johnson, Kenneth D. The centralizer of a Lie algebra in an enveloping algebra. **89m:17025**
Joseph, Anthony A surjectivity theorem for rigid highest weight modules. **89d:17013**
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Klein, Abraham (*with* Marshalek, E. R.) A new derivation of the Marshalek-Okubo realization of the shell-model algebra $\mathrm{SO}(2\nu+1)$ for even and odd systems with ν single-particle levels. **89i:17010**
Kubo, Fujio Enveloping algebras. **89g:17011**
Le Blanc, Richard (*with* Rowe, D. J.) Decomposition of the $\mathrm{SO}^*(8)$ enveloping algebra under $\mathrm{U}(4)\supset\mathrm{U}(3)$. **89f:17012**
Levasseur, T. (*with* Smith, S. P.) Primitive ideals and nilpotent orbits in type G_2. **89f:17013**
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Li, Sun Gen Representations of Lie algebras of step matrices. (Russian) **89g:17012**
Lusztig, G. Quantum deformations of certain simple modules over enveloping algebras. **89k:17029**
— (*with* Xi, Nan Hua) Canonical left cells in affine Weyl groups. **89m:17027**
Malliavin-Brameret, Marie-Paule Algèbre homologique et opérateurs différentiels. [Homological algebra and differential operators] **89k:17030**
Marshalek, E. R. *see* **Klein, Abraham, 89i:17010**
McConnell, J. C. Amalgams of Weyl algebras and the $\mathscr{A}(V,\delta,\Gamma)$ conjecture. **89f:17014**
Michaelis, Walter Properness of Lie algebras and enveloping algebras. II. **89f:17015b**
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Montgomery, S. *see* **Bergen, Jeffrey; et al., 89c:17019**
Nauwelaerts, E. (*with* Ooms, A. I.) Weights of semi-invariants of the quotient division ring of an enveloping algebra. **89k:17031**
Ooms, A. I. *see* **Nauwelaerts, E., 89k:17031**
Passman, D. S. Prime ideals in restricted enveloping rings. **89f:17016**
— *see also* **Bergen, Jeffrey; et al., 89c:17019**
Rentschler, R. Primitive ideals in enveloping algebras (general case). **89d:17014**
Rosso, Marc Représentations irréductibles de dimension finie du q-analogue de l'algèbre enveloppante d'une algèbre de Lie simple. (English summary) [Irreducible finite-dimensional representations of the q-analogue of the enveloping algebra of a simple Lie algebra] **89d:17015**
Rowe, D. J. *see* **Le Blanc, Richard, 89f:17012**
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Stafford, J. T. *see* **Levasseur, T.; et al., 89k:17028**
Tsygan, B. L. *see* **Feigin, B. L., 89c:17020**
Walcher, Sebastian Über homogene nilpotente Polynome. [On homogeneous nilpotent polynomials] **89h:17016**
Xi, Nan Hua *see* **Lusztig, G., 89m:17027**
Xia, Dao Xing Trace formula for almost Lie algebra of operators and cyclic one-cocycles. **89h:17017**
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Aubry, Marc (*with* Lemaire, Jean-Michel) Homotopies d'algèbres de Lie et de leurs algèbres enveloppantes. [Homotopies of Lie algebras and their enveloping algebras] **89k:55018**
Brown, K. A. (*with* Levasseur, T.) Cohomology of induced modules in rings of differential operators. **89e:16004**
Chamarie, M. (*with* Stafford, J. T.) When rings of differential operators are maximal orders. **89d:16007**
(Connes, Alain) *see* **Kastler, Daniel, 89h:18013**
Coutinho, S. C. (*with* Holland, M. P.) Module structure of rings of differential operators. **89i:32021**
De Meyer, H. *see* **Vanthournout, J.; et al., 89j:81265**
Đoković, Dragomir Ž. A generalization of Witt's formulae. **89e:17005**
Eguchi, Tohru (*with* Taormina, Anne) On the unitary representations of $N=2$ and $N=4$ superconformal algebras. **89k:17019**
El-Agawany, M. (*with* Micali, Artibano) Superalgèbres de Lie et le théorème de Poincaré-Birkhoff-Witt. (English summary) [Lie superalgebras and the Poincaré-Birkhoff-Witt theorem] **89h:17002**
Friedlander, Eric M. (*with* Parshall, Brian J.) Modular representation theory of Lie algebras. **89j:17015**
Holland, M. P. *see* **Coutinho, S. C., 89i:32021**
Jørgensen, Palle E. T. ★ Operators and representation theory. **89e:47001**
Józefiak, Tadeusz (*with* Weyman, Jerzy) Representation-theoretic interpretation of a formula of D. E. Littlewood. **89g:05013**
Kassel, Christian L'homologie cyclique des algèbres enveloppantes. (English summary) [The cyclic homology of enveloping algebras] **89e:17015**
Kastler, Daniel ★ Cyclic cohomology within the differential envelope. **89h:18013**
Lemaire, Jean-Michel *see* **Aubry, Marc, 89k:55018**
Letzter, Gail Integrality of I-adic completions. **89m:16022**
Levasseur, T. *see* **Brown, K. A., 89e:16004**
Lion, Gérard Résolubilité d'équations différentielles et représentations induites. [Solvability of differential equations and induced representations] **89a:22017**
Majid, Shahn Liouville theorem for the Yang-Mills self-duality equations. **89i:58153**
McConnell, J. C. (*with* Robson, J. C.) ★ Noncommutative Noetherian rings. **89j:16023**
Micali, Artibano *see* **El-Agawany, M., 89h:17002**
Nakazato, Hiroshi Invariant dissipative operators on locally compact groups. **89e:46069**
Ol′shanskiĭ, G. I. Yangians and universal enveloping algebras. (Russian. English summary) **89g:17016**
Parshall, Brian J. *see* **Friedlander, Eric M., 89j:17015**
Quesne, C. Casimir operators of semidirect sum Lie algebras. **89m:17015**
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Seibt, Peter ★ Cyclic homology of algebras. **89i:18013**
(Small, L. W.) *see* **McConnell, J. C., 89j:16023**
Smith, S. P. Curves, differential operators and finite-dimensional algebras. **89e:14026**
— (*with* Stafford, J. T.) Differential operators on an affine curve. **89d:14039**
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Tauvel, Patrice Dimension de Krull de certaines algèbres enveloppantes. (English summary) [Krull dimension of some enveloping algebras] **89b:16027**
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Vanthournout, J. (*with* Van der Jeugt, Joris; De Meyer, H.; Vanden Berghe, G.) On the spectrum of a third-order SO(3) scalar in the enveloping algebra of SO(6). **89j:81265**
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Wodzicki, Mariusz Cyclic homology of pseudodifferential operators and noncommutative Euler class. (French summary) **89h:58189**

17B40 Automorphisms, derivations, other operators

Farnsteiner, Rolf Dual space derivations and $H^2(L,F)$ of modular Lie algebras. **89a:17015**
— Derivations and central extensions of finitely generated graded Lie algebras. **89h:17018**
Ikeda, Toshiharu Locally inner derivations of ideally finite Lie algebras. **89m:17029**
Radjavi, H. The Engel-Jacobson theorem revisited. **89b:17014**
Sánchez Valenzuela, Oscar Adolfo (*with* Sternberg, S.) The automorphism group of a Hermitian superalgebra. **89a:17016**
Sternberg, S. *see* **Sánchez Valenzuela, Oscar Adolfo, 89a:17016**
Varea, Vicente R. Existence of ad-nilpotent elements and simple Lie algebras with subalgebras of codimension one. **89j:17014**

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Benkart, G. M. (*with* Moody, R. V.) Derivations, central extensions, and affine Lie algebras. **89a:17027**
Bryant, Roger M. Automorphism groups of nilpotent Lie algebras. **89b:20093**
Hopkins, Nora C. On the derivation algebras of Lie module triple systems. **89a:17002**
Moody, R. V. *see* **Benkart, G. M., 89a:17027**
Skryabin, S. M. Isomorphisms and differentiation of modular Lie algebras of Cartan type. (Russian) **89f:17008**
Varea, Vicente R. Lie algebras none of whose Engel subalgebras are in intermediate position. **89a:17008**

17B45 Lie algebras of linear algebraic groups [see also 14Lxx and 20Gxx]

Lusztig, G. Fourier transforms on a semisimple Lie algebra over $\mathbf{F}_q$. **89b:17015**
Mathieu, Olivier Construction du groupe de Kac-Moody et applications. (English summary) [Construction of the Kac-Moody group with applications] **89e:17013**

Items with secondary classifications in 17B45

Friedlander, Eric M. (*with* Parshall, Brian J.) Geometry of p-unipotent Lie algebras. **89a:17017**
Jantzen, J. C. ★ Representations of algebraic groups. **89c:20001**
Kawanaka, Noriaki Orbits and stabilizers of nilpotent elements of a graded semisimple Lie algebra. **89j:17012**
Parshall, Brian J. *see* **Friedlander, Eric M., 89a:17017**
Richardson, R. W. Conjugacy classes of n-tuples in Lie algebras and algebraic groups. **89k:20061**
Ryan, John G. Lie algebras and pro-algebraic groups. **89c:14071**
Springer, T. A. The classification of involutions of simple algebraic groups. **89b:20096**
Ten, O. K. Semisimple maximal subalgebras of Lie p-algebras of classical type. (Russian) **89c:17022**
Vavilov, N. A. Conjugacy theorems for subgroups of extended Chevalley groups that contain split maximal tori. **89e:20081**

17B50 Modular Lie algebras

Bakiev, M. N. (*with* Dzhumadil′daev, A. S.) Kernel spaces for the Witt algebra. **89k:17032**
Benkart, G. M. (*with* Osborn, J. Marshall) Toral rank one Lie algebras. **89d:17016**
Block, Richard E. (*with* Wilson, Robert Lee) Classification of the restricted simple Lie algebras. **89e:17014**
Drinfel′d, V. G. Quantum groups. **89f:17017**
Dzhumadil′daev, A. S. *see* **Bakiev, M. N., 89k:17032**
Farnsteiner, Rolf *see* **Strade, Helmut, 89h:17021**
Friedlander, Eric M. (*with* Parshall, Brian J.) Modular representation theory of Lie algebras. **89j:17015**
Gein, A. G. Modular subalgebras of Lie algebras. (Russian) **89j:17016**
Hailat, Mohammad Q. Classification of rank 2 GW-rootsystems. **89h:17019**
Lin, Lei Lie algebras $K(\mathscr{F},\mu_i)$ of Cartan type of characteristic $p=2$ and their subalgebras. (Chinese. English summary) **89k:17033**
Mohammed, I. B. Dimensional consideration of the smallest restricted generalized Witt algebra with the use of the Kaplansky's multiplication table. **89d:17017**
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Parshall, Brian J. *see* **Friedlander, Eric M., 89j:17015**
Razmyslov, Yu. P. Simple Lie algebras in varieties generated by Lie algebras of Cartan type. **89h:17020**
Strade, Helmut (*with* Farnsteiner, Rolf) ★ Modular Lie algebras and their representations. **89h:17021**
Ten, O. K. Semisimple maximal subalgebras of Lie p-algebras of classical type. (Russian) **89c:17022**
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Wilson, Robert Lee *see* **Block, Richard E., 89e:17014**
Winter, David J. The structure of cyclic Lie algebras. **89c:17023**

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Artamonov, V. A. Projective modules over nilpotent Lie algebras. (Ukrainian. Russian summary) **89e:17009**
Chin, William Prime ideals in restricted differential operator rings. **89e:17010**
Dzhumadil′daev, A. S. Cohomology and extensions of Lie algebras of characteristic p. (Russian) **89d:17019**
Farnsteiner, Rolf Dual space derivations and $H^2(L,F)$ of modular Lie algebras. **89a:17015**
Franklin, James Homomorphisms between Verma modules in characteristic p. **89c:17015**
Hailat, Mohammad Q. On the structure of Jacobi sets. **89h:17003**
Jantzen, J. C. Restricted Lie algebra cohomology. **89h:17023**
Kozerenko, K. V. Invariants of the algebras gl(2) and sl(2) in the case of a field of finite characteristic. **89d:17008**
Panyukov, V. V. Irreducible representations of completely solvable Lie algebras of positive characteristic. **89m:17014**
Passman, D. S. Prime ideals in restricted enveloping rings. **89f:17016**
Petravchuk, A. P. Lie algebras that can be decomposed into the sum of an abelian subalgebra and a nilpotent subalgebra. **89m:17023**
Qiu, Sen (*with* Shen, Guang Yu) Cohomology of graded Lie algebras of Cartan type of characteristic p. **89c:17025**
— On the cohomology of rank one Lie algebras in characteristic p. (Chinese. English summary) **89k:17036**
Shen, Guang Yu *see* **Qiu, Sen, 89c:17025**
Skryabin, S. M. Isomorphisms and differentiation of modular Lie algebras of Cartan type. (Russian) **89f:17008**
Varea, Vicente R. Existence of ad-nilpotent elements and simple Lie algebras with subalgebras of codimension one. **89j:17014**
Wilson, Robert Lee Simple Lie algebras over fields of prime characteristic. **89d:17009**

17B55 Homological methods in Lie algebras

Boukraa, S. The BRS algebra of a free minimal differential algebra. **89k:17034**
Loday, Jean-Louis (*with* Procesi, C.) Homology of symplectic and orthogonal algebras. **89k:17035**
Procesi, C. *see* **Loday, Jean-Louis, 89k:17035**

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Alekseevskii, D. V. Maximally homogeneous G-structures and filtered Lie algebras. **89d:53066**
Bakiev, M. N. (*with* Dzhumadil′daev, A. S.) Kernel spaces for the Witt algebra. **89k:17032**
Dzhumadil′daev, A. S. *see* **Bakiev, M. N., 89k:17032**
Halperin, Stephen (*with* Lemaire, Jean-Michel) Suites inertes dans les algèbres de Lie graduées ("Autopsie d'un meurtre. II"). [Inertial sequences in graded Lie algebras ("Anatomy of a murder. II")] **89e:55022**
Lemaire, Jean-Michel *see* **Halperin, Stephen, 89e:55022**
Loday, Jean-Louis Cyclic homology, a survey. **89e:18023**
— Homologies diédrale et quaternionique. [Dihedral and quaternionic homologies] **89e:18024**
— Comparaison des homologies du groupe linéaire et de son algèbre de Lie. (English summary) [Comparison of the homologies of the linear group and of its Lie algebra] **89i:17011**
Ryan, John G. Lie algebras and pro-algebraic groups. **89c:14071**
Skryabin, S. M. Isomorphisms and differentiation of modular Lie algebras of Cartan type. (Russian) **89f:17008**

17B56 Cohomology of Lie algebras

Dzhumadil′daev, A. S. Cohomology and extensions of Lie algebras of characteristic p. (Russian) **89d:17019**
Feigin, B. L. (*with* Fialowski, A.) Cohomology of the infinite-dimensional Lie algebra L_1 with nontrivial coefficients. **89b:17016**
Fialowski, A. *see* **Feigin, B. L., 89b:17016**
Friedlander, Eric M. (*with* Parshall, Brian J.) Geometry of p-unipotent Lie algebras. **89a:17017**
Henneaux, M. (*with* Teitelboim, Claudio) BRST cohomology in classical mechanics. **89h:17022**
Jantzen, J. C. Restricted Lie algebra cohomology. **89h:17023**
Kassel, Christian L'homologie cyclique des algèbres enveloppantes. (English summary) [The cyclic homology of enveloping algebras] **89e:17015**
Lecomte, P. B. A. (*with* Roger, Claude) Rigidity of current Lie algebras of complex simple type. **89c:17024**
Lichnerowicz, André Extensions essentielles d'algèbres de Lie classiques de dimensions infinies. [Essential extensions of classical infinite-dimensional Lie algebras] **89f:17018**
Loday, Jean-Louis Comparaison des homologies du groupe linéaire et de son algèbre de Lie. (English summary) [Comparison of the homologies of the linear group and of its Lie algebra] **89i:17011**
Parshall, Brian J. *see* **Friedlander, Eric M., 89a:17017**
Qiu, Sen (*with* Shen, Guang Yu) Cohomology of graded Lie algebras of Cartan type of characteristic p. **89c:17025**
— On the cohomology of rank one Lie algebras in characteristic p. (Chinese. English summary) **89k:17036**
Roger, Claude *see* **Lecomte, P. B. A., 89c:17024**
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Vanžura, Jiří Cohomology of the Lie algebra of vector fields with constant divergence. **89b:17017**

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Beĭlinson, A. A. (*with* Manin, Yu. I.; Shekhtman, V. V.) Sheaves of the Virasoro and Neveu-Schwarz algebras. **89j:58039**

Brylinski, Jean-Luc Cyclic homology and equivariant theories. (French summary) **89j:55008**
Calvo, Adina Homologie de Hochschild et homologie cyclique de certaines algèbres de matrices triangulaires. (English summary) [The Hochschild and cyclic homology of some algebras of triangular matrices] **89c:18018**
Cenkl, Bohumil (*with* Porter, Richard) Cohomology of nilmanifolds. **89i:57018**
Collingwood, David H. Representations of rank one Lie groups. II. n-cohomology. **89i:22031**
Farnsteiner, Rolf Dual space derivations and $H^2(L, F)$ of modular Lie algebras. **89a:17015**
— Derivations and central extensions of finitely generated graded Lie algebras. **89h:17018**
— On the vanishing of homology and cohomology groups of associative algebras. **89g:16035**
Feĭgin, B. L. (*with* Tsygan, B. L.) Additive K-theory. **89a:18017**
— (*with* Tsygan, B. L.) Cyclic homology of algebras with quadratic relations, universal enveloping algebras and group algebras. **89c:17020**
— (*with* Fuks, D. B.; Retakh, V. S.) Massey operations in the cohomology of the infinite-dimensional Lie algebra L_1. **89m:17031**
Félix, Yves (*with* Halperin, Stephen; Jacobsson, Carl; Löfwall, Clas; Thomas, Jean-Claude) The radical of the homotopy Lie algebra. **89d:55029**
Friedlander, Eric M. (*with* Parshall, Brian J.) Modular representation theory of Lie algebras. **89j:17015**
Fuks, D. B. *see* **Feĭgin, B. L.; et al., 89m:17031**
Haddi, Aziz Détermination des extensions centrales des algèbres de Kac-Moody. (English summary) [The determination of central extensions of Kac-Moody Lie algebras] **89i:17018**
Haefliger, André Des espaces homogènes à la résolution de Koszul. (English summary) [From homogeneous spaces to Koszul's resolution] **89f:57061**
Halperin, Stephen *see* **Félix, Yves; et al., 89d:55029**
Jacobsson, Carl *see* **Félix, Yves; et al., 89d:55029**
Jantzen, J. C. ★ Representations of algebraic groups. **89c:20001**
Kastler, Daniel (*with* Stora, R.) A differential geometric setting for BRS transformations and anomalies. I, II. **89a:53085**
Khakimdzhanov, Yu. B. Cohomologies et déformations de certaines algèbres de Lie nilpotentes. [Cohomology and deformations of certain nilpotent Lie algebras] **89k:17023**
Kumar, Shrawan Extension of the category $\mathcal{O}^g$ and a vanishing theorem for the Ext functor for Kac-Moody algebras. **89h:17038**
Loday, Jean-Louis Cyclic homology, a survey. **89e:18023**
— (*with* Procesi, C.) Homology of symplectic and orthogonal algebras. **89k:17035**
Löfwall, Clas *see* **Félix, Yves; et al., 89d:55029**
Losik, M. V. On characteristic classes of structures on manifolds. (Russian) **89b:58231**
Mackenzie, Kirill ★ Lie groupoids and Lie algebroids in differential geometry. **89g:58225**
Manin, Yu. I. *see* **Beĭlinson, A. A.; et al., 89j:58039**
Morimoto, Tohru Transitive Lie algebras admitting differential systems. **89h:58221**
Pagon, Dušan Bases and deformations of some Lie algebras. (Russian) **89m:17047**
Parshall, Brian J. *see* **Friedlander, Eric M., 89j:17015**
Porter, Richard *see* **Cenkl, Bohumil, 89i:57018**
Procesi, C. *see* **Loday, Jean-Louis, 89k:17035**
Retakh, V. S. *see* **Feĭgin, B. L.; et al., 89m:17031**
Shekhtman, V. V. *see* **Beĭlinson, A. A.; et al., 89j:58039**
Stora, R. Algèbres différentielles en théorie des champs. (English summary) [Differential algebras in field theory] **89b:81145**
— *see also* **Kastler, Daniel, 89a:53085**
Thomas, Jean-Claude *see* **Félix, Yves; et al., 89d:55029**
Tống Văn Đú'c Algèbre de Lie attachée à la structure presque tangente d'ordre 2. [The Lie algebra associated with a second-order almost tangent structure] **89h:53087**
Tsutsui, Izumi Cocycles in topological Yang-Mills theories. **89h:81124**
Tsygan, B. L. *see* **Feĭgin, B. L., 89a:18017** *and* **89c:17020**

17B60 Lie rings associated with other structures (associative, Jordan, etc.) [see also 15A30, 16A68, 17C40, 17C50]

Ferreira, L. A. (*with* Gomes, J. F.; Zimerman, A. H.) Vertex operators and Jordan fields. **89j:17017**
Gomes, J. F. *see* **Ferreira, L. A.; et al., 89j:17017**
Khukhro, E. I. A new identity in the Lie ring of a free group of prime period and of a group without the Hughes property. (Russian) **89a:17018**
Kubo, Fujio Lie structures on $\mathfrak{k}[x_1, \cdots, x_n, y]/(y^3 - 3py - q)$. **89g:17013**
Turovskiĭ, Yu. V. Commutativity modulo the Jacobson radical of the associative envelope of a Lie algebra. (Russian) **89e:17016**
Zimerman, A. H. *see* **Ferreira, L. A.; et al., 89j:17017**

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Anick, David J. Inert sets and the Lie algebra associated to a group. **89d:20031**
Bergen, Jeffrey Constants of Lie algebra actions. **89c:16048**
Hopkins, Nora C. Decomposition of Lie module triple systems. **89c:17007**
Kuz'min, Yu. V. (*with* Shapiro, M. Z.) The connection between varieties of groups and varieties of Lie rings. (Russian) **89g:20048**
Mizuhara, Akira On left symmetric algebras over a real nilpotent Lie algebra. **89k:17009**
Niu, Feng Wen Extensions of the Lie ring of all derivations on a prime ring. (Chinese. English summary) **89m:16069**
Shapiro, M. Z. *see* **Kuz'min, Yu. V., 89g:20048**

17B65 Infinite-dimensional Lie algebras [see also 22E65]

Antoniadis, I. (*with* Ditsas, P.; Floratos, E. G. F.; Iliopoulos, J.) New realizations of the Virasoro algebra as membrane symmetries. **89i:17012**
(Arcuri, R.) *see* **Olive, D. I., 89c:17027**
Arnal, D. (*with* Cortet, J.-C.) Déformations algébriques sur le dual $\underline{g}^*$ d'une algèbre de Lie. [Algebraic deformations on the dual $\underline{g}^*$ of a Lie algebra] **89a:17019**
Baake, Michael Branching rules for unitary representations of Virasoro and super-Virasoro algebras at $c = 1$. **89i:17013**
Babelon, O. Extended conformal algebra and the Yang-Baxter equation. **89i:17014**
Bonora, L. (*with* Bregola, M.; Cotta-Ramusino, P.; Martellini, M.) Virasoro-type algebras and BRST operators on Riemann surfaces. **89d:17020**
Bouwknegt, Peter On the construction of modular invariant partition functions. **89h:17024**
— Extended conformal algebras. **89d:17021**
Bregola, M. *see* **Bonora, L.; et al., 89d:17020**
Chari, Vyjayanthi (*with* Pressley, A. N.) Unitary representations of the Virasoro algebra and a conjecture of Kac. **89h:17025**
Cortet, J.-C. *see* **Arnal, D., 89a:17019**
Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89d:17020**
De Wilde, Marc Existence de déformations formelles de l'algèbre de Poisson et de star-produits sur une variété symplectique. [Existence of formal deformations of the Poisson algebra and star-products on a symplectic manifold] **89m:17030**
Ditsas, P. *see* **Antoniadis, I.; et al., 89i:17012**
Dobrev, V. K. Characters of the unitarizable highest weight modules over the $N = 2$ superconformal algebras. **89a:17020**
Đoković, Dragomir Ž. On some inner derivations of free Lie algebras over commutative rings. **89k:17037**
(Drinfel'd, V. G.) *see* **Verdier, Jean-Louis, 89f:17021**
Dubois-Violette, Michel The Weil-BRS algebra of a Lie algebra and the anomalous terms in gauge theory. **89h:17026**
Dunne, Gerald V. (*with* Halliday, I. G.; Suranyi, Peter) Generalised bosonic construction of Virasoro algebras. **89i:17015**
Dzhasem, Amir Abdel' Madzhid Standard subalgebras of an infinite-dimensional Lie algebra of finite matrices. (Russian) **89a:17021**
Englert, F. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.; Spindel, Ph.) Loop algebras and superalgebras based on S^7. **89i:17016**
Fairlie, D. B. (*with* Nuyts, J.; Zachos, C. K.) A presentation for the Virasoro and super-Virasoro algebras. **89i:17017**
— (*with* Nuyts, J.; Zachos, C. K.) Construction of classical Virasoro algebras as SU(1, 1) extensions. **89h:17027**
— (*with* Fletcher, P.; Zachos, C. K.) Trigonometric structure constants for new infinite-dimensional algebras. **89k:17038**
Feĭgin, B. L. (*with* Fuks, D. B.; Retakh, V. S.) Massey operations in the cohomology of the infinite-dimensional Lie algebra L_1. **89m:17031**
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17Cxx Jordan algebras (commutative)

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17C25 Universal enveloping algebras

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17C30 Automorphisms, derivations, other operators

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17C35 Formally real domains of positivity [see also 32Nxx]

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17D92 Genetic algebras

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18–XX Category theory, homological algebra

18–02 Advanced exposition (research surveys, monographs, etc.)

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Lambek, J. (*with* Scott, Philip J.) ★ Introduction to higher order categorical logic. **89a:03024**
Scott, Philip J. *see* **Lambek, J., 89a:03024**

18–06 Proceedings, conferences, etc.

(Borceux, Francis) *see* **Categorical algebra and its applications, 89g:18001**
(Gray, John W.) *see* **Categories in computer science and logic, 89m:18001**
(Scedrov, Andre) *see* **Categories in computer science and logic, 89m:18001**

Items listed otherwise than by author
Bogotá ★ Seminar and workshop on category theory and applications. **89a:18001**
Boulder, CO ★ Categories in computer science and logic. **89m:18001**
Categorical algebra and its applications ★ Categorical algebra and its applications. **89g:18001**
Categories in computer science and logic ★ Categories in computer science and logic. **89m:18001**
Conference:
  Categorical Algebra and its Applications ★ Categorical algebra and its applications. **89g:18001**
  Categories in Computer Science and Logic ★ Categories in computer science and logic. **89m:18001**
Contemporary Mathematics ★ Categories in computer science and logic. **89m:18001**
Lecture Notes in Mathematics ★ Categorical algebra and its applications. **89g:18001**
Louvain-la-Neuve ★ Categorical algebra and its applications. **89g:18001**
Seminar:
  Category Theory and Applications ★ Seminar and workshop on category theory and applications. **89a:18001**
Workshop:
  Category Theory and Applications ★ Seminar and workshop on category theory and applications. **89a:18001**

Items with secondary classifications in 18–06
(Main, Michael G.) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Melton, A. C.) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Mislove, Michael) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Schmidt, David A.) *see* **Mathematical foundations of programming language semantics, 89a:68005**

Items listed otherwise than by author
Lecture Notes in Computer Science ★ Mathematical foundations of programming language semantics. **89a:68005**
Mathematical foundations of programming language semantics ★ Mathematical foundations of programming language semantics. **89a:68005**
New Orleans, LA ★ Mathematical foundations of programming language semantics. **89a:68005**
Workshop:
  Mathematical Foundations of Programming Language Semantics ★ Mathematical foundations of programming language semantics. **89a:68005**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Schumacher, Dietmar (*with* Street, Ross) Some parametrized categorical concepts. **89k:18001**
Street, Ross *see* **Schumacher, Dietmar, 89k:18001**
Topencharov, V. V. Relational equations in a general category. **89i:18001**

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

Ehresmann, A. C. (*with* Vanbremeersch, J.-P.) Hierarchical evolutive systems: a mathematical model for complex systems. **89a:18002**
Guitart, René On the geometry of computations. (French summary) **89a:18003**
Hion, Jaak Polygons over categories and groupoids. **89a:18004**
Vanbremeersch, J.-P. *see* **Ehresmann, A. C., 89a:18002**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Items with secondary classifications in 18A15
Borceux, Francis (*with* Pedicchio, M. Cristina) De Morgan's and strong De Morgan's laws in a topos of sheaves. **89e:18007**
Lamarche, François A generalization of the notion of free triple. **89f:18001**
Lambek, J. On the unity of algebra and logic. **89m:18010**
Pedicchio, M. Cristina *see* **Borceux, Francis, 89e:18007**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Cagliari, Francesca (*with* Mantovani, Sandra) Disconnectednesses and partial products. **89k:18002**
Giuli, E. (*with* Mantovani, Sandra; Tholen, Walter) Objects with closed diagonals. **89c:18001**
Hébert, Michel On the reflective hull problem. **89c:18002**
— Multireflections and multifactorization systems. **89g:18002**
Herrlich, Horst (*with* Salicrup López, Graciela; Strecker, G. E.) Factorizations, denseness, separation, and relatively compact objects. **89e:18001**
Jiang, Sheng Yuan Weak generalized inverses of morphisms in concrete categories. (Chinese. English summary) **89j:18001**
Mantovani, Sandra *see* **Giuli, E.; et al., 89c:18001** *and* **Cagliari, Francesca, 89k:18002**
Salicrup López, Graciela *see* **Herrlich, Horst; et al., 89e:18001**
Schreckenberger, Jürgen Mehrfache Partiallisierung von Kategorien. [Multiple partialization of categories] **89b:18001**
Strecker, G. E. *see* **Herrlich, Horst; et al., 89e:18001**
Tholen, Walter *see* **Giuli, E.; et al., 89c:18001**

Items with secondary classifications in 18A20
Fay, Temple H. Compact modules. **89m:16051**
Heath, Philip R. (*with* Parmenter, M. M.) Lifting colimits in various categories. **89k:18003**
Parmenter, M. M. *see* **Heath, Philip R., 89k:18003**

18A22 Special properties of functors (faithful, full, etc.)

Fried, Ervin On the behaviour of congruence-functors. **89a:18005**

Items with secondary classifications in 18A22
Martínez, Juan José The edge morphisms for the spectral sequence of a composite functor. **89m:18018**
Prószyński, Andrzej ★ Odwzorowania wyższych stopni. (Polish) [Higher-order mappings] **89b:15043**

18A25 Functor categories, comma categories

Gorbunov, V. G. The generalized Grothendieck category. (Russian) **89b:18002**

Items with secondary classifications in 18A25
Clarke, Robert John Almost split sequences in a functor category. **89m:16056**
Dwyer, W. G. (*with* Kan, D. M.) Equivalences between homotopy theories of diagrams. **89d:55051**
Kan, D. M. *see* **Dwyer, W. G., 89d:55051**
Shkhaied, R. Annihilator conditions in rings of endomorphisms of modules over small preadditive categories. **89g:16026**
Ulbrich, K.-H. On cohomology of graded group categories. **89b:18016**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Heath, Philip R. (*with* Parmenter, M. M.) Lifting colimits in various categories. **89k:18003**
Jarzembski, Grzegorz Concrete ultraproducts in fibrations. (Russian summary) **89k:18004**
Parmenter, M. M. *see* **Heath, Philip R., 89k:18003**

Items with secondary classifications in 18A30
Albert, M. H. (*with* Kelly, G. M.) The closure of a class of colimits. **89g:18003a**
— *see also* **Kelly, G. M., 89g:18003b**
Kelly, G. M. (*with* Paré, Robert) A note on the M. H. Albert-G. M. Kelly paper: "The closure of a class of colimits" [J. Pure Appl. Algebra **51** (1988), no. 1, 1–17]. **89g:18003b**
— *see also* **Albert, M. H., 89g:18003a**
Kent, Robert E. The metric closure powerspace construction. **89k:68097**
Paré, Robert *see* **Kelly, G. M., 89g:18003b**
Pitts, Andrew M. Applications of sup-lattice enriched category theory to sheaf theory. **89m:18002**
Power, A. J. A unified approach to the lifting of adjoints. (French summary) **89e:18005**
Tholen, Walter Reflective subcategories. **89b:18006**
Wagner, E. G. A categorical treatment of pre- and post-conditions. **89f:68046**

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

Clementino, M. Manuel Ribeiro Factorizations in categories. (Portuguese) **89b:18003**
Dikranjan, Dikran (*with* Giuli, E.) Closure operators. I. **89e:18002**
Ehrbar, Hans (*with* Wyler, O.) Images in categories as reflections. (French summary) **89b:18004**

Giuli, E. *see* **Dikranjan, Dikran, 89e:18002**

Lord, Harriet Lazowick Factorizations, M-separation, and extremal-epireflective subcategories. **89b:18005**

— Erratum: "Factorizations, M-separation, and extremal-epireflective subcategories" [Topology Appl. **28** (1988), no. 3, 241–253; MR 89b:18005]. **89k:18005**

Richter, Günther Categorical remarks on Hilbert's Nullstellensatz. **89h:18001**

Tholen, Walter Diagonal theorems in topology and elsewhere. **89h:18002**

Wyler, O. *see* **Ehrbar, Hans, 89b:18004**

Zhitomirskiĭ, G. I. Rigid commutative sheaves in abelian categories. (Russian) (*see* **89a:06002**)

Items with secondary classifications in 18A32

Bourn, Dominique A right exactness property for internal categories. (French summary) **89h:18009**

Giuli, E. (*with* Mantovani, Sandra; Tholen, Walter) Objects with closed diagonals. **89c:18001**

Herrlich, Horst (*with* Salicrup López, Graciela; Strecker, G. E.) Factorizations, denseness, separation, and relatively compact objects. **89e:18001**

Jarzembski, Grzegorz (*with* Kurpiel, Andrzej) One more concept of multiadjointness. **89e:18004**

Kurpiel, Andrzej *see* **Jarzembski, Grzegorz, 89e:18004**

Mantovani, Sandra *see* **Giuli, E.; et al., 89c:18001**

Salicrup López, Graciela *see* **Herrlich, Horst; et al., 89e:18001**

Strecker, G. E. *see* **Herrlich, Horst; et al., 89e:18001**

Tholen, Walter Reflective subcategories. **89b:18006**

— *see also* **Giuli, E.; et al., 89c:18001**

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Albert, M. H. (*with* Kelly, G. M.) The closure of a class of colimits. **89g:18003a**

— *see also* **Kelly, G. M., 89g:18003b**

Kelly, G. M. (*with* Paré, Robert) A note on the M. H. Albert-G. M. Kelly paper: "The closure of a class of colimits" [J. Pure Appl. Algebra **51** (1988), no. 1, 1–17]. **89g:18003b**

— *see also* **Albert, M. H., 89g:18003a**

Paré, Robert *see* **Kelly, G. M., 89g:18003b**

Items with secondary classifications in 18A35

Adámek, Jiří How complete are categories of algebras? **89a:18010**

Jarzembski, Grzegorz (*with* Kurpiel, Andrzej) One more concept of multiadjointness. **89e:18004**

Kurpiel, Andrzej *see* **Jarzembski, Grzegorz, 89e:18004**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Adámek, Jiří (*with* Rosický, J.) Intersections of reflective subcategories. **89e:18003**

Botnaru, D. V. Left-continuous functors. (Russian) **89j:18002**

Castellini, Gabriele Closure operators and functorial topologies. **89k:18006**

Jarzembski, Grzegorz (*with* Kurpiel, Andrzej) One more concept of multiadjointness. **89e:18004**

Kurpiel, Andrzej *see* **Jarzembski, Grzegorz, 89e:18004**

Lamarche, François A generalization of the notion of free triple. **89f:18001**

Power, A. J. A unified approach to the lifting of adjoints. (French summary) **89e:18005**

Rosický, J. *see* **Adámek, Jiří, 89e:18003**

Srivastava, Arun Kumar^2 On monads, monadicity and top categories. **89c:18003**

Tholen, Walter Reflective subcategories. **89b:18006**

Verma, Krishnanand Prorepresentability of a functor. **89k:18007a**

— Representable functors. **89k:18007b**

Items with secondary classifications in 18A40

Asensio Mayor, J. (*with* Gómez Pardo, J. L.) Relative splitting properties with applications to endomorphism rings. **89g:16036**

Berger, S. M. On deductive varieties of locally convex spaces. **89k:46088**

Beynon, M. Free constructions in ordered abelian monoids and groups. **89d:06027**

Bourn, Dominique A right exactness property for internal categories. (French summary) **89h:18009**

Brümmer, G. C. L. (*with* Hager, A. W.) Functorial uniformization of topological spaces. **89c:54025**

Cagliari, Francesca (*with* Mantovani, Sandra) Localizations in universal topological categories. **89g:54023**

Ehrbar, Hans (*with* Wyler, O.) Images in categories as reflections. (French summary) **89b:18004**

Gómez Pardo, J. L. *see* **Asensio Mayor, J., 89g:16036**

Hager, A. W. *see* **Brümmer, G. C. L., 89c:54025**

Hajek, D. W. Some categories which have no minimal generating classes. **89b:54013**

Hébert, Michel On the reflective hull problem. **89c:18002**

— Multireflections and multifactorization systems. **89g:18002**

Herrlich, Horst (*with* Salicrup López, Graciela; Strecker, G. E.) Factorizations, denseness, separation, and relatively compact objects. **89e:18001**

Hušek, M. (*with* de Vries, Jan) Preservation of products by functors close to reflectors. **89e:54014**

Jay, C. Barry Local adjunctions. **89i:18004**

Lord, Harriet Lazowick Factorizations, M-separation, and extremal-epireflective subcategories. **89b:18005**

— Erratum: "Factorizations, M-separation, and extremal-epireflective subcategories" [Topology Appl. **28** (1988), no. 3, 241–253; MR 89b:18005]. **89k:18005**

Lowen, Robert *see* **Lowen-Colebunders, Eva, 89g:54024**

Lowen-Colebunders, Eva (*with* Lowen, Robert) A quasitopos containing CONV and MET as full subcategories. **89g:54024**

Mantovani, Sandra *see* **Cagliari, Francesca, 89g:54023**

Omiadze, Z. Ch. Satellites of internal functors. (Russian. English and Georgian summaries) **89e:18021**

Porst, Hans-E. On free topological algebras. (French summary) **89e:22004**

— Free algebras over Cartesian closed topological categories. **89k:22002**

Salicrup López, Graciela *see* **Herrlich, Horst; et al., 89e:18001**

Strecker, G. E. *see* **Herrlich, Horst; et al., 89e:18001**

de Vries, Jan *see* **Hušek, M., 89e:54014**

Wyler, O. *see* **Ehrbar, Hans, 89b:18004**

18A99 None of the above, but in this section

Dzhanelidze, G. Z. The fundamental theorem of Galois theory. (Russian) **89k:18008**

Koslowski, Jürgen Closure operators with prescribed properties. **89j:18003**

Zhuang, Wa Jin Generalized inverses of morphisms in a category. (Chinese) **89f:18002**

Items with secondary classifications in 18A99

Alderton, I. W. Splitting and conjoining objects in monotopological categories. **89k:18015**

Carboni, A. (*with* Freyd, Peter J.; Scedrov, Andre) A categorical approach to realizability and polymorphic types. **89g:68043**

Chess, Daniel S. A categorical context for the James-Hopf maps. **89b:55006**

Freyd, Peter J. *see* **Carboni, A.; et al., 89g:68043**

Gray, John W. Categorical aspects of data type constructors. **89a:68154**

Lamarche, François A model for Coquand's theory of constructions. **89j:68100**

Makkai, M. Stone duality for first order logic. **89h:03067**

Mijoule, Richard La théorie des fonctions indexées en récursivité. [The theory of indexed functions in relation to recursiveness] **89b:03077**

Moggi, Eugenio Partial morphisms in categories of effective objects. **89i:68088**

Scedrov, Andre *see* **Carboni, A.; et al., 89g:68043**

Yoshida, Tomoyuki Fisher's inequality for block designs with finite group action. **89b:05044**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Items with secondary classifications in 18B05

Mawanda, Mbila-Mambu On a categorical analysis of Zadeh generalized subsets of sets. I. **89m:03050**

Orlicki, Andrzej Constructive and locally constructive endofunctors on the category of enumerated sets. **89a:03086**

Rosický, J. A categorical characterization of sets among classes. **89a:03089**

Sauer, Norbert W. (*with* Stone, M. G.) Indigenous relations in categories of sets. **89j:08009**

Stone, M. G. *see* **Sauer, Norbert W., 89j:08009**

18B10 Category of relations, additive relations

Boja, Nicolae *see* **Dăianu, Dan, 89k:18009b**

Dăianu, Dan Projective limits in the a-category of groups. **89k:18009a**

— (*with* Boja, Nicolae) Isotone correspondences. **89k:18009b**

Peeva, Ketty G. A new construction for the composition of relations. (Bulgarian. English and Russian summaries) **89e:18006**

Pitts, Andrew M. Applications of sup-lattice enriched category theory to sheaf theory. **89m:18002**

Items with secondary classifications in 18B10

Betti, Renato Symmetric categories and Cauchy-completion. (Italian summary) **89d:18002**

18B15 Imbedding theorems, universal categories [see also 18E20]

Items with secondary classifications in 18B15

Goralčík, P. (*with* Koubek, Václav) On universality of extensions. **89h:20095**

Herrlich, Horst On the representability of partial morphisms in Top and in related constructs. **89m:18006**

Koubek, Václav *see* **Goralčík, P., 89h:20095**

Pashenkov, V. V. Homogeneous and inhomogeneous dualities. (Russian) **89m:46113**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Items with secondary classifications in 18B20

Benson, David B. The shuffle bialgebra. **89h:68037**

Fixman, Uri (*with* Okoh, Frank; Sankaran, N.) Internal functors for systems of linear transformations. **89b:18015**

Labella, Anna (*with* Pettorossi, Alberto) Universal models in categories for process synchronization. **89a:68066**

Loboda, M. A note on canonical systems with control sets. (Russian and Polish summaries) **89g:68040**

Okoh, Frank *see* **Fixman, Uri; et al., 89b:18015**

Pettorossi, Alberto *see* **Labella, Anna, 89a:68066**

Rosolini, G. Categories and effective computations. **89c:03101**

Sankaran, N. *see* **Fixman, Uri; et al., 89b:18015**

18B25 Topoi [see also 03G30]

Acuña-Ortega, Osvaldo A definition of finite cardinals in an arbitrary topos. (Spanish) **89g:18004**
Aguado Martín, F. (*with* Fernández Rodríguez, Rosa M.) On the class of varieties that are topoi. (Spanish. English summary) **89g:18005**
Banaschewski, B. Injectivity and modelling in the Blass topos. **89a:18006**
Barr, Michael On categories with effective unions. **89k:18010**
Borceux, Francis (*with* Pedicchio, M. Cristina) De Morgan's and strong De Morgan's laws in a topos of sheaves. **89e:18007**
— (*with* Veit, A. Barbara) Subobject classifier for algebraic structures. **89g:18006**
Carel, Szasz $I_{n,m}$-objekt in einem Elementartopos. (Romanian summary) [$I_{n,m}$-object in an elementary topos] **89i:18002**
Coulon, J. L. *see* **Coulon, Josette, 89h:18003** *and* **89h:18004**
Coulon, Josette (*with* Coulon, J. L.) Is the category JTF a topos? **89h:18003**
— (*with* Coulon, J. L.) Morphisms in the category JTF^∞. Weak classifier of monomorphisms. **89h:18004**
Español, Luis The spectrum and dimension of rings in an algebra on a topos. (Spanish) **89g:18007**
Fernández Rodríguez, Rosa M. *see* **Aguado Martín, F., 89g:18005**
Lamarche, François On the stack completion of a category object in a pretopos. **89b:18007**
Lawvere, F. W. Categories of spaces may not be generalized spaces as exemplified by directed graphs. **89h:18005**
Moerdijk, Ieke Toposes and groupoids. **89m:18003**
— Path-lifting for Grothendieck toposes. **89c:18004**
Nistor, S. C. (*with* Tofan, I.) A functorial characterization of categories of modules in an ω-topos. (Romanian) **89m:18004**
Pedicchio, M. Cristina *see* **Borceux, Francis, 89e:18007**
Proietti, Maurizio Connections between partial maps categories and tripos theory. **89a:18007**
Scedrov, Andre Kleene computable functionals and the higher order existence property. **89g:18008**
Tofan, I. *see* **Nistor, S. C., 89m:18004**
Veit, A. Barbara *see* **Borceux, Francis, 89g:18006**
Zarichnyĭ, M. M. Operators of interiority in a sheaf topos. (Russian) **89g:18009**

Items with secondary classifications in 18B25

Bhutani, Kiran R. Injectivity and injective hulls of abelian groups in a localic topos. **89a:18018**
Blass, Andreas Well-ordering and induction in intuitionistic logic and topoi. **89c:03095**
Kock, Anders (*with* Reyes, Gonzalo E.) Corrigendum and addenda to the paper: "Convenient vector spaces embed into the Cahiers topos" [Cahiers Topologie Géom. Différentielle Catégoriques **27** (1986), no. 1, 3–17, MR 87m:58009a] by Kock. (French summary) **89d:58002**
Lambek, J. (*with* Scott, Philip J.) ★ Introduction to higher order categorical logic. **89a:03024**
Lowen, Robert *see* **Lowen-Colebunders, Eva, 89g:54024**
Lowen-Colebunders, Eva (*with* Lowen, Robert) A quasitopos containing CONV and MET as full subcategories. **89g:54024**
Mawanda, Mbila-Mambu Well-ordering and choice in toposes. **89f:03062**
— Finite cardinals in general topoi. **89f:03063**
Meloni, G. C. (*with* Rogora, E.) Global and infinitesimal observables. **89m:58003**
Moerdijk, Ieke On the embedding of manifolds into the smooth Zariski topos. **89c:18008**
— (*with* Ngô Van Quê; Reyes, Gonzalo E.) Rings of smooth functions and their localizations. II. **89g:58015**
— (*with* Ngô Van Quê; Reyes, Gonzalo E.) Forcing smooth square roots and integration. **89d:58003**
Ngô Van Quê *see* **Moerdijk, Ieke; et al., 89d:58003** *and* **89g:58015**
Pitts, Andrew M. Interpolation and conceptual completeness for pretoposes via category theory. **89g:03096**
— Applications of sup-lattice enriched category theory to sheaf theory. **89m:18002**
Reyes, Gonzalo E. *see* **Kock, Anders, 89d:58002; Moerdijk, Ieke; et al., 89d:58003** *and* **89g:58015**
Rogora, E. *see* **Meloni, G. C., 89m:58003**
Rosebrugh, Robert (*with* Wood, R. J.) Proarrows and cofibrations. **89i:18005**
Scott, Philip J. *see* **Lambek, J., 89a:03024**
Wood, R. J. *see* **Rosebrugh, Robert, 89i:18005**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Cagliari, Francesca (*with* Mantovani, Sandra) Factorizations in topological categories and related topics. **89m:18005**
Dikranjan, Dikran (*with* Giuli, E.; Tozzi, A.) Topological categories and closure operators. **89i:18003**
Giuli, E. *see* **Dikranjan, Dikran; et al., 89i:18003**
Herrlich, Horst On the representability of partial morphisms in Top and in related constructs. **89m:18006**
Kent, D. C. (*with* Vainio, R.) The category of ordered Cauchy spaces is Cartesian closed. **89h:18006**
Mantovani, Sandra *see* **Cagliari, Francesca, 89m:18005**
Márki, L. (*with* Mlitz, R.; Wiegandt, R.) A general Kurosh-Amitsur radical theory. **89h:18007**
Mlitz, R. *see* **Márki, L.; et al., 89h:18007**
Pedicchio, M. Cristina (*with* Rossi, Fabio) A remark on monoidal closed structures on Top. **89g:18010**
Pultr, A. (*with* Sichler, J.) Frames in Priestley's duality. (French summary) **89j:18004**
Rossi, Fabio *see* **Pedicchio, M. Cristina, 89g:18010**
Sichler, J. *see* **Pultr, A., 89j:18004**
Stramaccia, Luciano Classes of spaces defined by an epireflector. **89k:18011**
Tozzi, A. *see* **Dikranjan, Dikran; et al., 89i:18003**
Vainio, R. *see* **Kent, D. C., 89h:18006**
Wiegandt, R. *see* **Márki, L.; et al., 89h:18007**
Zarichnyĭ, M. M. Monadic functors of finite degree. (Russian) **89k:18012**

Items with secondary classifications in 18B30

Adámek, Jiří (*with* Rosický, J.) Intersections of reflective subcategories. **89e:18003**
Ageev, S. M. Projective objects and coverings of a category of G-spaces. (Russian) **89c:54024**
Banaschewski, B. (*with* Brümmer, G. C. L.) Stably continuous frames. **89e:54059**
Brümmer, G. C. L. *see* **Banaschewski, B., 89e:54059**
Cagliari, Francesca (*with* Mantovani, Sandra) Disconnectednesses and partial products. **89k:18002**
Császár, Á. Proximities, screens, merotopies, uniformities. III. **89e:54019a**
— Proximities, screens, merotopies, uniformities. IV. **89e:54019b**
Day, B. J. Onto Gel'fand transformations. (French summary) **89e:18015**
Dikranjan, Dikran (*with* Giuli, E.) Closure operators. I. **89e:18002**
Ervynck, G. A note on the front closure topology. **89g:54006**
Fakhruddin, Syed M. On the category of S-posets. **89i:06003**
Giuli, E. (*with* Mantovani, Sandra; Tholen, Walter) Objects with closed diagonals. **89c:18001**
— *see also* **Dikranjan, Dikran, 89e:18002**
Hajek, D. W. Some categories which have no minimal generating classes. **89b:54013**
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Kneis, Gert Completion functors for categories of convergence spaces. II. Embedding of separated acceptable spaces into their completion. **89g:54007**
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— *see also* **Lowen-Colebunders, Eva, 89g:54024**
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Pérez Esteban, Dionisio Semi-rings and spectral spaces. **89i:08010**
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Shostak, A. P. On a category for fuzzy topology. (Serbo-Croatian summary) **89m:54011**
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Sun, Shu Hao Compact zero-dimensional reflection of locales. (Chinese) (Not in MR)
Tholen, Walter Reflective subcategories. **89b:18006**
— Diagonal theorems in topology and elsewhere. **89h:18002**
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Yú, Yong Xi^1 Topologies generated by functors. **89g:18017**
Zarichnyĭ, M. M. Operators of interiority in a sheaf topos. (Russian) **89g:18009**

18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Items with secondary classifications in 18B35

Hrbáček, Karel A powerdomain construction. **89f:06010**
Pultr, A. (*with* Sichler, J.) Frames in Priestley's duality. (French summary) **89j:18004**
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18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

Bourn, Dominique The shift functor and the comprehensive factorization for internal groupoids. (French summary) **89a:18008**

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Goralčík, P. (*with* Koubek, Václav) On universality of extensions. **89h:20095**
Higgins, P. M. Epimorphisms and amalgams. **89m:20083**
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Dekov, Deko V. Problèmes universels relatifs aux classes polaires. [Universal problems involving polar classes] **89m:18008**
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Melton, A. C. *see* **McDill, J. M.; et al., 89e:18009**
Niefield, S. B. (*with* Rosenthal, K. I.) Constructing locales from quantales. **89f:18003**
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Richter, Günther On Noetherian subsemigroup rings with several objects. **89b:18008**
Rosenthal, K. I. *see* **Niefield, S. B., 89f:18003**
Strecker, G. E. *see* **McDill, J. M.; et al., 89e:18009**
Yoshida, Tomoyuki On the Burnside rings of finite groups and finite categories. **89e:18010**

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Beynon, M. Free constructions in ordered abelian monoids and groups. **89d:06027**
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Gurevich, D. I. Trace and determinant in algebras associated with the Yang-Baxter equation. (Russian) **89c:58050**
Heller, Alex On permutation representations. **89i:20009**
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Höhle, Ulrich Quotients with respect to similarity relations. **89g:90011**
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Joyal, André Foncteurs analytiques et espèces de structures. [Analytic functors and species of structures] **89b:05014**
Li, Tao Sheng (*with* Bian, Song Yuan) On duality principles. (Chinese. English summary) **89m:51005**
Lowen-Colebunders, Eva *see* **Bentley, H. L.; et al., 89e:54062**
Masavetas, K. A. (*with* Roumpani-Kalantzopoulou, F.) Categories and functors which characterize chemical reactions, their kinetics and mechanism. **89j:80019**
Miao, Jian Ming (*with* Robinson, Donald W.) Group and Moore-Penrose inverses of regular morphisms with kernel and cokernel. **89h:15009**
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Richter, Günther Categorical remarks on Hilbert's Nullstellensatz. **89h:18001**
Robinson, Donald W. *see* **Miao, Jian Ming, 89h:15009**
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18Cxx Categories and algebraic theories

18C05 Equational categories [see also 03–XX, 08C05]

Items with secondary classifications in 18C05

Richter, Günther Categorical remarks on Hilbert's Nullstellensatz. **89h:18001**

18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03–XX]

Bloom, Stephen L. (*with* Tindell, Ralph) A note on zero-congruences. **89e:18011**
Cornish, W. H. ★ Antimorphic action. **89a:18009**
Lair, C. Catégories qualifiables et catégories esquissables. [Qualifiable categories and sketchable categories] **89m:18009**
Lambek, J. On the unity of algebra and logic. **89m:18010**
Tindell, Ralph *see* **Bloom, Stephen L., 89e:18011**

Items with secondary classifications in 18C10

Benson, David B. (*with* Guessarian, Irène) Algebraic solutions to recursion schemes. **89d:68050**
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Grandis, Marco *see* **Betti, Renato, 89g:18014**
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Hagino, Tatsuya A typed lambda calculus with categorical type constructors. **89e:03021**
Jensen, Finn V. (*with* Larsen, Kim G.) Recursively defined domains and their induction principles. **89e:68079**
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Pitts, Andrew M. Polymorphism is set theoretic, constructively. **89c:03022**
Słomiński, Józef On comparisons of algebras by using the enrichmental theories and cloning systems. **89e:08008**

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Adámek, Jiří How complete are categories of algebras? **89a:18010**
Fernández Rodríguez, Rosa M. Associate triples of higher degree. (Serbo-Croatian summary) **89f:18004**
Fox, Thomas F. Operations on triple cohomology. **89e:18012**
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18C20 Algebras and Kleisli categories associated with monads

Machner, Joachim Standard monads. **89e:18013**

Items with secondary classifications in 18C20

Fernández Rodríguez, Rosa M. Associate triples of higher degree. (Serbo-Croatian summary) **89f:18004**
Jarzembski, Grzegorz (*with* Kurpiel, Andrzej) One more concept of multiadjointness. **89e:18004**
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Hoehnke, Hans-Jürgen Algebraic problems of Brandt's symbolics. **89b:18009**

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Nicholson, W. K. (*with* Watters, J. F.) Morita context functors. **89g:16050**
Watters, J. F. *see* **Nicholson, W. K., 89g:16050**

18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

Betti, Renato Symmetric categories and Cauchy-completion. (Italian summary) **89d:18002**
— (*with* Power, A. J.) On local adjointness of distributive bicategories. (Italian summary) **89k:18014**
— (*with* Grandis, Marco) Complete theories in 2-categories. (French summary) **89g:18014**
Carboni, A. Bicategories of partial maps. (French summary) **89g:18015**
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Johnson, Michael (*with* Walters, R. F. C.) On the nerve of an n-category. (French summary) **89e:18014**
Pirashvili, T. I. Models for the homotopy theory and cohomology of small categories. (Russian. English and Georgian summaries) **89j:18005**
Power, A. J. *see* **Betti, Renato, 89k:18014**
Rosebrugh, Robert (*with* Wood, R. J.) Proarrows and cofibrations. **89i:18005**
Street, Ross Fillers for nerves. **89m:18011**
Walters, R. F. C. *see* **Johnson, Michael, 89e:18014**
Wood, R. J. *see* **Rosebrugh, Robert, 89i:18005**

Items with secondary classifications in 18D05

Niefield, S. B. (*with* Rosenthal, K. I.) Ideals of closed categories. **89e:18016**
Omiadze, Z. Ch. Satellites of internal functors. (Russian. English and Georgian summaries) **89e:18021**
Rosenthal, K. I. *see* **Niefield, S. B., 89e:18016**
Street, Ross The algebra of oriented simplexes. **89a:18019**

18D10 Monoidal categories (= multiplicative categories) [see also 19D23]

Calvo, Bernard Objets dominants. (English summary) [Dominant objects] **89m:18012**
Porst, Hans-E. On categories of monoid-actions. **89b:18010**

Items with secondary classifications in 18D10

Höhle, Ulrich Quotients with respect to similarity relations. **89g:90011**

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

Alderton, I. W. Splitting and conjoining objects in monotopological categories. **89k:18015**
Day, B. J. Onto Gel′fand transformations. (French summary) **89e:18015**
Lawvere, F. W. Taking categories seriously. **89g:18016**
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Lambek, J. (*with* Scott, Philip J.) ★ Introduction to higher order categorical logic. **89a:03024**
Lemaire, Jean-Michel *see* **Aubry, Marc, 89k:55018**
Paré, Robert *see* **Kelly, G. M., 89g:18003b**
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18D20 Enriched categories (over closed or monoidal categories)

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Yú, Yong Xi[1] Topologies generated by functors. **89g:18017**
— Some properties on the category $C - c^r$. **89c:18005**

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— (*with* Power, A. J.) On local adjointness of distributive bicategories. (Italian summary) **89k:18014**
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Rosebrugh, Robert (*with* Wood, R. J.) Proarrows and cofibrations. **89i:18005**
Wood, R. J. *see* **Rosebrugh, Robert, 89i:18005**

18D30 Fibered categories

Eytan, Michel Fibration et relateurs arithmétiques. [Fibration and arithmetical relators] **89e:18018**

Items with secondary classifications in 18D30

Bourn, Dominique A right exactness property for internal categories. (French summary) **89h:18009**
Pitts, Andrew M. Applications of sup-lattice enriched category theory to sheaf theory. **89m:18002**

18D35 Structured objects in a category (group objects, etc.)

Johnstone, P. T. A simple proof that localic subgroups are closed. (French summary) **89e:18019**
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Shekhtman, V. V. *see* **Khinich, V. A., 89d:55052**

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Items with secondary classifications in 18D99

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18Exx Abelian categories

18E05 Preadditive, additive categories

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Shkhaied, R. PF-categories. **89k:18016**
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Nistor, S. C. (*with* Tofan, I.) A functorial characterization of categories of modules in an ω-topos. (Romanian) **89m:18004**
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Tofan, I. *see* **Nistor, S. C., 89m:18004**

18E10 Exact categories, abelian categories

Bourn, Dominique A right exactness property for internal categories. (French summary) **89h:18009**
Crivei, I. On a class of objects in exact categories. (Romanian. English summary) **89b:18012**
Dragomir, Anca-Dana ★ Examples of exact categories with Serre class and Euler-Poincaré mapping. **89a:18011**
— Examples of exact categories with Serre class and Euler-Poincaré mapping. **89k:18017**

Items with secondary classifications in 18E10

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Gorbunov, V. G. The generalized Grothendieck category. (Russian) **89b:18002**
Kiełpiński, Roman A characterization of rings over which abelian Hopf algebras form an abelian category. **89f:16011**

18E15 Grothendieck categories

Menini, Claudia (*with* Orsatti, Adalberto) The basic ring of a locally Artinian category and applications. **89a:18012**
Orsatti, Adalberto *see* **Menini, Claudia, 89a:18012**
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Barr, Michael On categories with effective unions. **89k:18010**
Bhutani, Kiran R. Characterising complete Boolean algebras in terms of pure essentialness. **89m:18014**

18E20 Imbedding theorems [see also 18B15]

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Fuller, Kent R. (*with* Hutchinson, George) Exact embedding functors and left coherent rings. **89k:16075**
Hutchinson, George *see* **Fuller, Kent R., 89k:16075**

18E25 Derived functors and satellites

Pirashvili, T. I. On quadratic functors. (Georgian. English and Russian summaries) **89f:18005**
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Gerstenhaber, Murray (*with* Schack, Samuel D.) The cohomology of presheaves of algebras. I. Presheaves over a partially ordered set. **89k:16052**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 89k:16052**

18E30 Derived categories, triangulated categories

Badra, Abdallah Sous-catégories pleines d'une catégorie dérivée filtrée. [Full subcategories of a filtered derived category] **89k:18018**
Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**
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Assem, Ibrahim (*with* Skowroński, Andrzej) Algebras with cycle-finite derived categories. **89f:16023b**
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Cline, Ed Simulating algebraic geometry with algebra. III. The Lusztig conjecture as a TG_1-problem. **89c:20062c**
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— On the derived category of a finite-dimensional algebra. **89c:16029**
— ★ Triangulated categories in the representation theory of finite-dimensional algebras. **89e:16035**
Kapranov, M. M. On the derived category and K-functor of coherent sheaves on intersections of quadrics. **89f:14014**
Keller, Bernhard (*with* Vossieck, Dieter) Dualité de Grothendieck-Roos et basculement. (English summary) [Grothendieck-Roos duality and tilting] **89j:16035**
Parshall, Brian J. Simulating algebraic geometry with algebra. II. Stratifying representation categories. **89c:20062b**
Scott, Leonard L. Simulating algebraic geometry with algebra. I. The algebraic theory of derived categories. **89c:20062a**
Skowroński, Andrzej *see* **Assem, Ibrahim, 89f:16023b**
Vossieck, Dieter *see* **Keller, Bernhard, 89j:16035**

18E35 Localization of categories

Items with secondary classifications in 18E35

Badra, Abdallah Sous-catégories pleines d'une catégorie dérivée filtrée. [Full subcategories of a filtered derived category] **89k:18018**

18E40 Torsion theories, radicals [see also 13D30, 16A63]

Gentle, Ronald T.T.F. theories in abelian categories. **89a:18013**
— A T.T.F. theory for short exact sequences. **89a:18014**

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Dikranjan, Dikran (*with* Giuli, E.) Closure operators. I. **89e:18002**
Giuli, E. *see* **Dikranjan, Dikran, 89e:18002**
Raggi, Federico F. Sublattices of R-tors and τ-projective modules. **89e:16041**
Teply, Mark ★ Semicocritical modules. **89b:16036**

18E99 None of the above, but in this section

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Haastert, Burkhard On direct and inverse images of $\mathscr{D}$-modules in prime characteristic. **89j:14011**
Liu, Shao Xue The Baer radical and Levitzki radical of additive categories. (Chinese. English summary) **89e:16016**

18Fxx Categories and geometry

18F05 Local categories and functors

Items with secondary classifications in 18F05

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18F10 Grothendieck topologies [see also 14F20]

Items with secondary classifications in 18F10

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Skurikhin, E. E. The cohomology theory of normal sheaves. I. (Russian. Serbo-Croatian summary) **89b:55004**
— The cohomology theory of normal sheaves. II. Acyclic resolvents and some applications. (Russian. Serbo-Croatian summary) **89b:55005**

18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

Moerdijk, Ieke (*with* Reyes, Gonzalo E.) On the relation between connection and sprays. **89k:18019**
— On the embedding of manifolds into the smooth Zariski topos. **89c:18008**
Pogoda, Zdzisław The regularity condition for some natural functors. **89a:18015**
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Bunge, Marta (*with* Dubuc, Eduardo J.) Local concepts in synthetic differential geometry and germ representability. **89f:58005**
— On a synthetic proof of the Ambrose-Palais-Singer theorem for infinitesimally linear spaces. (French summary) **89a:58004**
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Kock, Anders Synthetic reasoning in differential geometry. **89h:58004**
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18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

Bhutani, Kiran R. Characterising complete Boolean algebras in terms of pure essentialness. **89m:18014**
Ćirić, Dušan M. On the category of ordered sets. (Serbo-Croatian summary) **89k:18020**
Omiadze, Z. Ch. Satellites of internal functors. (Russian. English and Georgian summaries) **89e:18021**

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Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**
Skurikhin, E. E. The cohomology theory of normal sheaves. I. (Russian. Serbo-Croatian summary) **89b:55004**
— The cohomology theory of normal sheaves. II. Acyclic resolvents and some applications. (Russian. Serbo-Croatian summary) **89b:55005**
Verma, Krishnanand Classification of curves of a given genus. **89k:14048**
de Villamarín, Gilma R. Direct limit of a direct system of metric spaces. (Spanish) **89g:54063**
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Zarelua, A. V. Locally homotopically contractible differential graded sheaves. (Russian) **89b:55023**
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18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16A54, 19–XX, 57R65, 57R67]

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Brumfiel, G. W. The real spectrum of an ideal and KO-theory exact sequences. **89c:18009**
Carral, Michel Quadratic and λ-Hermitian forms. **89j:18007**
Charney, Ruth A generalization of a theorem of Vogtmann. **89h:18010**
Clauwens, F. J. B. J. K-theory, λ-rings, and formal groups. **89c:18010**
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Davis, James Frederic Evaluation of odd-dimensional surgery obstructions with finite fundamental group. **89h:18011**
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Ellis, Graham J. An eight term exact sequence in algebraic K-theory. **89i:18006**
— Multirelative algebraic K-theory: the group $K_2(\Lambda; I_1, \cdots, I_n)$ and related computations. **89a:18016**
Feĭgin, B. L. (*with* Tsygan, B. L.) Additive K-theory. **89a:18017**
Giffen, Charles H. Loop spaces for the Q-construction. **89k:18021**
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Grayson, Daniel R. Exact sequences in algebraic K-theory. **89c:18011**
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Gubeladze, I. Dzh. On the K-theory of complete projective algebras. (Russian. English and Georgian summaries) **89g:18020**
— "Classical" algebraic K-theory of monoid algebras. (Russian. English and Georgian summaries) **89k:18022**
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Laubenbacher, Reinhard C. On the K-theory of $\mathbf{Z}G$, G a nonabelian group of order pq. **89f:18006**
— Generalized Mayer-Vietoris sequences in algebraic K-theory. **89e:18022**
Lines, Daniel (*with* Morales, Jorge F.) Grothendieck groups of sesquilinear forms over a ring with involution. **89k:18023**
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Nicas, Andrew J. Mixed Hodge structure in cyclic homology and algebraic K-theory. I. **89f:18007**
Oliver, Robert SK_1 of finite group rings. V. **89d:18004**
— ★ Whitehead groups of finite groups. **89h:18014**
— (*with* Taylor, Laurence R.) Logarithmic descriptions of Whitehead groups and class groups for p-groups. **89k:18024**
Pascual Gainza, P. K-theory of categories of complexes, and applications. (Spanish. English summary) **89c:18013**
Pataraya, D. A. Homology properties of algebraic K-theory. (Georgian. English and Russian summaries) **89c:18014**
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Shekhtman, V. V. On the delooping of Chern character and Adams operations. **89c:18015**
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Thomason, R. W. Algebraic K-theory of group scheme actions. **89c:18016**
— (*with* Trobaugh, Thomas F.) Le théorème de localisation en K-théorie algébrique. (English summary) [The localization theorem in algebraic K-theory] **89m:18015**
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Vaserstein, L. N. Subnormal structure of the general linear groups over Banach algebras. **89i:18008**
— Reduction of a matrix depending on parameters to a diagonal form by addition operations. **89h:18015**
— Linear algebra and algebraic K-theory. **89k:18025**
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Weibel, C. K-théorie algébrique homotopique. (English summary) [Homotopy algebraic K-theory] **89f:18010**
— Nil K-theory maps to cyclic homology. **89b:18014**

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Carlsson, Gunnar Segal's Burnside ring conjecture and related problems in topology. **89g:55010**
Charney, Ruth (*with* Lee, Ronnie) Characteristic classes for the classifying spaces of Hodge structures. **89h:32046**
Chess, Daniel S. A categorical context for the James-Hopf maps. **89b:55006**
Cohen, Ralph L. Pseudo-isotopies, K-theory, and homotopy theory. **89f:57028**
Davis, James Frederic (*with* Ranicki, Andrew) Semi-invariants in surgery. **89f:57045**
Dupont, Johan L. (*with* Parry, Walter; Sah, Chih-Han) Homology of classical Lie groups made discrete. II. H_2, H_3, and relations with scissors congruences. **89h:22019**
Feng, Ke Qin On the Birch-Tate conjecture for cyclic number fields. **89b:11095**
Friedlander, Eric M. (*with* Parshall, Brian J.) Limits of infinitesimal group cohomology. **89d:20037**
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Kassel, Christian K-théorie algébrique et cohomologie cyclique bivariantes. (English summary) [Bivariant algebraic K-theory and cyclic cohomology] **89j:18012**
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Levine, Marc Localization on singular varieties. **89c:14015a**
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— (*with* Procesi, C.) Homology of symplectic and orthogonal algebras. **89k:17035**
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— Normal subgroups of orthogonal groups over commutative rings. **89i:20071**
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Vigué-Poirrier, Micheline Cyclic homology and Quillen homology of a commutative algebra. **89i:18011**
— Sur l'algèbre de cohomologie cyclique d'un espace 1-connexe applications à la géometrie des variétés. [On the cyclic cohomology algebra of a 1-connected space; applications to the geometry of manifolds] **89e:55023**
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18F30 Grothendieck groups [see also 13D15, 16A54, 19Axx]

Wang, Fang Gui The Grothendieck groups of categories of finitely presented modules over coherent rings. (Chinese. English summary) **89m:18016**
Xu, Ke Jian Morita equivalence and Grothendieck groups. (Chinese. English summary) **89j:18011**

18F99 None of the above, but in this section

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18Gxx Homological algebra [see also 55Uxx]

Loday, Jean-Louis Cyclic homology, a survey. **89e:18023**

18G05 Projectives and injectives [see also 13C10, 13C11, 16A50, 16A52]

Bhutani, Kiran R. Injectivity and injective hulls of abelian groups in a localic topos. **89a:18018**

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Banaschewski, B. Injectivity and modelling in the Blass topos. **89a:18006**
Donovan, P. W. A criterion for a modular representation to be projective. **89g:20023**
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18G10 Resolutions; derived functors [see also 18E25]

Fixman, Uri (*with* Okoh, Frank; Sankaran, N.) Internal functors for systems of linear transformations. **89b:18015**
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Saneblidze, S. A. Homology classification of differential algebras. (Russian. English and Georgian summaries) **89k:18026**
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Brown, W. C. (*with* Kerr, Jeanne Wald) A matrix problem associated with computing Cohen-Macaulay type. **89e:15025**
Calvo, Adina Homologie de Hochschild et homologie cyclique de certaines algèbres de matrices triangulaires. (English summary) [The Hochschild and cyclic homology of some algebras of triangular matrices] **89c:18018**
Connes, Alain Cyclic cohomology and noncommutative differential geometry. **89i:58138**
Gedrich, T. V. (*with* Gruenberg, K. W.) Complete cohomological functors on groups. **89h:20073**
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Guo, Wen Bin (*with* Yuan, Xiang Huan) Some properties of exterior powers of modules. (Chinese. English summary) **89m:13009**
Kerr, Jeanne Wald *see* **Brown, W. C., 89e:15025**
Wodzicki, Mariusz Cyclic homology of differential operators in characteristic $p > 0$. (French summary) **89i:14015**
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18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Calvo, Adina Homologie de Hochschild et homologie cyclique de certaines algèbres de matrices triangulaires. (English summary) [The Hochschild and cyclic homology of some algebras of triangular matrices] **89c:18018**
Grivel, Pierre-Paul Extensions de modules et cohomologie des groupes. [Module extensions and group cohomology] **89h:18016**
Hood, Christine E. (*with* Jones, John D. S.) Some algebraic properties of cyclic homology groups. **89f:18011**
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Connes, Alain Analyse et géométrie. [Analysis and geometry] **89h:58183**
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Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) Gorenstein spaces. **89k:55019**

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Linnell, P. A. (*with* Stammbach, U.) On the cohomology of p-constrained groups. **89f:20055**
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18G20 Homological dimension [see also 13Dxx, 16A60, 16A62]

Items with secondary classifications in 18G20

Gedrich, T. V. (*with* Gruenberg, K. W.) Complete cohomological functors on groups. **89h:20073**
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18G25 Relative homological algebra, projective classes

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Connes, Alain Cyclic cohomology and noncommutative differential geometry. **89i:58138**
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Marciniak, Zbigniew Cyclic homology of group rings. **89b:20023**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Geller, S. (*with* Weibel, C.) Hochschild and cyclic homology are far from being homotopy functors. **89i:18010**
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Ashley, N. Simplicial T-complexes and crossed complexes: a nonabelian version of a theorem of Dold and Kan. **89k:55028**
(Brown, Ronald) *see* **Ashley, N., 89k:55028**
Dwyer, W. G. (*with* Kan, D. M.) Equivalences between homotopy theories of diagrams. **89d:55051**
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Porter, Timothy Erratum: "Some categorical results in the theory of crossed modules in commutative algebras" [J. Algebra **109** (1987), no. 2, 415–429; MR 88k:18010]. **89h:18008**

18G35 Chain complexes [see also 18E30, 55U15]

Burghelea, Dan (*with* Vigué-Poirrier, Micheline) Cyclic homology of commutative algebras. I. **89k:18027**
Loday, Jean-Louis Partition eulérienne et opérations en homologie cyclique. (English summary) [Eulerian partition and operations in cyclic homology] **89h:18017**
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Berikashvili, N. A. On the homology theory of fiber spaces. (Russian. English and Georgian summaries) **89g:55024**
Hood, Christine E. (*with* Jones, John D. S.) Some algebraic properties of cyclic homology groups. **89f:18011**
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Kassel, Christian K-théorie algébrique et cohomologie cyclique bivariantes. (English summary) [Bivariant algebraic K-theory and cyclic cohomology] **89j:18012**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Martínez, Juan José The edge morphisms for the spectral sequence of a composite functor. **89m:18018**

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Barnes, Donald W. On Carlson's spectral sequence. **89c:20075**
Batanin, M. A. Mappings of spectral sequences and the generalized homotopy axiom. (Russian) **89i:55014**
Betti, Renato (*with* Grandis, Marco) Complete theories in 2-categories. (French summary) **89g:18014**
Gorbunov, V. G. *see* **Vershinin, V. V., 89b:55020**
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Kuz'min, Yu. V. On the differentials of a spectral sequence of a group extension. **89e:20093**
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18G50 Nonabelian homological algebra [see also 19D99]

Carrasco, P. (*with* Cegarra, A. M.; Garzon, A. R.) La suite fondamentale de Hochschild-Serre pour la cohomologie non abélienne des groupes. II. (English summary) [The Hochschild-Serre fundamental exact sequence in nonabelian group cohomology. II] **89g:18021**
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— *see also* **Carrasco, P.; et al., 89g:18021**
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Grandis, Marco Convergence in homological algebra. (Italian summary) **89f:18012**
Guin, Daniel Cohomologie et homologie non abéliennes des groupes. [Nonabelian group cohomology and homology] **89b:18017**
Kassel, Christian K-théorie algébrique et cohomologie cyclique bivariantes. (English summary) [Bivariant algebraic K-theory and cyclic cohomology] **89j:18012**
McCarthy, Randy Morita equivalence and cyclic homology. (French summary) **89k:18028**
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Aznar García, Enrique R. (*with* Lirola Térrez, Antonio) Abelian groupoids and extensions of monoids. (Spanish. English summary) **89g:20103**
Bourn, Dominique The shift functor and the comprehensive factorization for internal groupoids. (French summary) **89a:18008**
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18G55 Nonabelian homotopical algebra

Block, Jonathan L. Cyclic homology of filtered algebras. **89b:18018**
Karoubi, Max Homologie cyclique et K-théorie. (English summary) [Cyclic homology and K-theory] **89c:18019**
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Cibils, Claude On the Hochschild cohomology of finite-dimensional algebras. **89c:16027**
Cordier, Jean-Marc (*with* Porter, Timothy) Maps between homotopy coherent diagrams. **89m:55008**
Feĭgin, B. L. (*with* Tsygan, B. L.) Cyclic homology of algebras with quadratic relations, universal enveloping algebras and group algebras. **89c:17020**
Hardie, K. A. (*with* Kamps, K. H.) The homotopy category of homotopy factorizations. **89e:55028**
Kamps, K. H. *see* **Hardie, K. A., 89e:55028**
Pirashvili, T. I. Models for the homotopy theory and cohomology of small categories. (Russian. English and Georgian summaries) **89j:18005**
Porter, Timothy *see* **Cordier, Jean-Marc, 89m:55008**
Street, Ross The algebra of oriented simplexes. **89a:18019**
Tsygan, B. L. *see* **Feĭgin, B. L., 89c:17020**

18G99 None of the above, but in this section

Barja Pérez, Javier ★ Sucesiones exactas de ocho términos en homología de grupos. $H_3(G, \mathbf{Z}_q)$. (Spanish) [Eight-term exact sequences in group homology: $H_3(G, \mathbf{Z}_q)$] **89j:18013**
Blanco Ferro, Antonio A. (*with* Ladra González, Manuel) A description of the cohomology of small categories. (Spanish. English summary) **89j:18014**
Cibils, Claude Complexes simpliciaux et carquois. (English summary) [Simplicial complexes and quivers] **89m:18020**
Ladra González, Manuel *see* **Blanco Ferro, Antonio A., 89j:18014**
Lapin, S. V. Dihedral homology of a tensor algebra and of skew polynomial rings. (Russian) **89g:18022**
Seibt, Peter ★ Cyclic homology of algebras. **89i:18013**

Items with secondary classifications in 18G99

Betley, S. Homological stability for $\mathrm{O}_{n,n}$ over a local ring. **89b:20090**
Boukraa, S. The BRS algebra of a free minimal differential algebra. **89k:17034**
Dubois-Violette, Michel Dérivations et calcul différentiel non commutatif. (English summary) [Derivations and noncommutative differential calculus] **89k:58035**
Kassel, Christian L'homologie cyclique des algèbres enveloppantes. (English summary) [The cyclic homology of enveloping algebras] **89e:17015**
Kuz'min, Yu. V. Homology theory of free abelianized extensions. **89k:20074**
Michalski, Jacek A note on the functor der. (Serbo-Croatian summary) **89c:20105**

Miller, Haynes R. The Sullivan conjecture and homotopical representation theory. **89f:55016**
Ochoa, G. A complete description of the outer plethysm in $R(S)$. **89i:20029**
Robinson, Alan The extraordinary derived category. **89a:55022**
Weibel, C. Nil K-theory maps to cyclic homology. **89b:18014**

19–XX K-theory (to be used only for secondary classifications, until further notice) [see also 16A54, 18F25]

19–01 Elementary exposition; textbooks

Items with secondary classifications in 19–01
Vaserstein, L. N. Linear algebra and algebraic K-theory. **89k:18025**

19–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 19–02
Oliver, Robert ★ Whitehead groups of finite groups. **89h:18014**

19–06 Proceedings, conferences, etc.

Items with secondary classifications in 19–06
(Dennis, R. K.) *see* **Algebraic K-theory and algebraic number theory, 89j:18010**
(Stein, Michael R.) *see* **Algebraic K-theory and algebraic number theory, 89j:18010**

Items listed otherwise than by author
Algebraic K-theory and algebraic number theory ★ Algebraic K-theory and algebraic number theory. **89j:18010**
Contemporary Mathematics ★ Algebraic K-theory and algebraic number theory. **89j:18010**
Honolulu, HI ★ Algebraic K-theory and algebraic number theory. **89j:18010**
Seminar:
  Algebraic K-Theory and Algebraic Number Theory ★ Algebraic K-theory and algebraic number theory. **89j:18010**

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

Items with secondary classifications in 19A13
Barge, Jean (*with* Ojanguren, M.) Fibrés algébriques sur une surface réelle. [Algebraic bundles on a real surface] **89d:14032**
Bass, Hyman (*with* Guralnick, R.) Torsion in the Picard group and extension of scalars. **89e:13006**
Bhatwadekar, S. M. (*with* Roy, Amit) Some cancellation theorems about projective modules over polynomial rings. **89b:13015**
Caenepeel, S. Cancellation theorems for projective graded modules. **89h:16024**
Guralnick, R. *see* **Bass, Hyman, 89e:13006**
Mohan Kumar, N. (*with* Murthy, M. Pavaman; Roy, Amit) A cancellation theorem for projective modules over finitely generated rings. **89j:18009**
Murthy, M. Pavaman *see* **Mohan Kumar, N.; et al., 89j:18009**
Ojanguren, M. *see* **Barge, Jean, 89d:14032**
Rao, Ravi A. A question of H. Bass on the cancellative nature of large projective modules over polynomial rings. **89e:13007**
— The Bass-Quillen conjecture in dimension three but characteristic $\neq 2, 3$ via a question of A. Suslin. **89d:13011**
Roy, Amit *see* **Bhatwadekar, S. M., 89b:13015** *and* **Mohan Kumar, N.; et al., 89j:18009**
Yanik, Joe Strongly projective algebras and invertible algebras. **89a:13017**

19A15 Efficient generation

Items with secondary classifications in 19A15
Bhatwadekar, S. M. Analytic isomorphism and category of finitely generated modules. **89i:13009**
Krempa, Jan Unit groups and commutative ring extensions. **89j:13004**
Martin, Mary B. (*with* Smith, William W.) The Picard group of certain polynomial rings. **89b:13017**
Smith, William W. *see* **Martin, Mary B., 89b:13017**

19A22 Frobenius modules, induction theory

Items with secondary classifications in 19A22
Oliver, Robert (*with* Taylor, Laurence R.) Logarithmic descriptions of Whitehead groups and class groups for p-groups. **89k:18024**
Taylor, Laurence R. *see* **Oliver, Robert, 89k:18024**

19A31 K_0 of group rings and orders

Items with secondary classifications in 19A31
Cliff, Gerald (*with* Weiss, Alfred R.) Moody's induction theorem. **89h:16009**
Gubeladze, I. Dzh. "Classical" algebraic K-theory of monoid algebras. (Russian. English and Georgian summaries) **89k:18022**
Gustafson, William H. Group rings over hereditary orders. **89d:16035**
Hambleton, I. (*with* Taylor, Laurence R.; Williams, E. B.) On $G_n(RG)$ for G a finite nilpotent group. **89h:20008**
Lorenz, Martin Frobenius reciprocity and G_0 of skew group rings. **89g:16032**
Loring, Terry K-theory and asymptotically commuting matrices. **89b:47022**
Oliver, Robert (*with* Taylor, Laurence R.) Logarithmic descriptions of Whitehead groups and class groups for p-groups. **89k:18024**
Ritter, Jürgen (*with* Sehgal, Sudarshan K.) Certain normal subgroups of units in group rings. **89c:20014**
Sehgal, Sudarshan K. *see* **Ritter, Jürgen, 89c:20014**
Taylor, Laurence R. *see* **Hambleton, I.; et al., 89h:20008** *and* **Oliver, Robert, 89k:18024**
Webb, David L. Higher G-theory of nilpotent group rings. **89h:20007**
— Equivariantly finite manifolds with no handle structure. **89k:57048**
Weiss, Alfred R. *see* **Cliff, Gerald, 89h:16009**
Williams, E. B. *see* **Hambleton, I.; et al., 89h:20008**

19A49 K_0 of other rings

Items with secondary classifications in 19A49
Artamonov, V. A. Projective modules over nilpotent Lie algebras. (Ukrainian. Russian summary) **89e:17009**
Auslander, Maurice (*with* Reiten, Idun) Grothendieck groups of algebras with nilpotent annihilators. **89e:13015**
Mucke, Christian ★ Zerlegungseigenschaften von stetigen und quasistetigen Moduln. (German) [Decomposition properties of continuous and quasicontinuous modules] **89d:16032**
Packer, Judith A. Strong Morita equivalence for Heisenberg C^*-algebras and the positive cones of their K_0-groups. **89k:46085**
de la Peña, J. A. On the representation type of one point extensions of tame concealed algebras. **89h:16022**
Reiten, Idun *see* **Auslander, Maurice, 89e:13015**
Wiegand, Roger Nilpotent elements in Grothendieck rings. **89k:13011**

19A99 None of the above, but in this section

Items with secondary classifications in 19A99
Lady, E. L. The integral closure of **Z** in the Grothendieck ring for quasi-isomorphism classes of finite rank torsion free modules over a Dedekind domain. **89b:20117**
Wang, Fang Gui The Grothendieck groups of categories of finitely presented modules over coherent rings. (Chinese. English summary) **89m:18016**

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10
Dennis, R. K. (*with* Vaserstein, L. N.) On a question of M. Newman on the number of commutators. **89k:20062**
Goodearl, K. R. (*with* Menal, P.) Stable range one for rings with many units. **89h:16011**
Magurn, B. A. *see* **Vaserstein, L. N., 89c:16034**
Menal, P. *see* **Goodearl, K. R., 89h:16011**
Mohan Kumar, N. (*with* Murthy, M. Pavaman; Roy, Amit) A cancellation theorem for projective modules over finitely generated rings. **89j:18009**
Murthy, M. Pavaman *see* **Mohan Kumar, N.; et al., 89j:18009**
Roy, Amit *see* **Mohan Kumar, N.; et al., 89j:18009**
Vaserstein, L. N. (*with* Magurn, B. A.) Prestabilization for K_1 of Banach algebras. **89c:16034**
— Normal subgroups of orthogonal groups over commutative rings. **89i:20071**
— Reduction of a matrix depending on parameters to a diagonal form by addition operations. **89h:18015**
— *see also* **Dennis, R. K., 89k:20062**

19B14 Stability for linear groups

Items with secondary classifications in 19B14
Kopeĭko, V. I. Unitary and orthogonal groups over rings with involution. (Russian) **89k:20063**
Rao, Ravi A. The Bass-Quillen conjecture in dimension three but characteristic $\neq 2, 3$ via a question of A. Suslin. **89d:13011**
Tavgen′, O. I. On the conjectures of Grothendieck and Platonov. (Russian. English summary) **89h:20063**
Vaserstein, L. N. Subnormal structure of the general linear groups over Banach algebras. **89i:18008**

19B20 SK_1 of simple algebras

Items with secondary classifications in 19B20
Kaskevich, V. I. The structure of unitary and orthogonal groups over Henselian discretely valued Azumaya algebras. (Russian. English summary) **89g:16009**

19B28 K_1 of group rings and orders

Items with secondary classifications in 19B28

Gubeladze, I. Dzh. "Classical" algebraic K-theory of monoid algebras. (Russian. English and Georgian summaries) **89k:18022**

Kleinert, Ernst A theorem on units of integral group rings. **89b:16008**

Oliver, Robert SK_1 of finite group rings. V. **89d:18004**

— Central units in p-adic group rings. **89f:20006**

— ★ Whitehead groups of finite groups. **89h:18014**

— (*with* Taylor, Laurence R.) Logarithmic descriptions of Whitehead groups and class groups for p-groups. **89k:18024**

Quinn, Frank Applications of topology with control. **89g:57049**

Ranicki, Andrew The algebraic theory of torsion. II. Products. **89f:18008**

Steinberger, Mark The equivariant topological s-cobordism theorem. **89e:57015**

Taylor, Laurence R. *see* **Oliver, Robert, 89k:18024**

Vaserstein, L. N. Normal subgroups of classical groups over Banach algebras. **89f:46105**

19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

Rapinchuk, A. S. The congruence subgroup problem for algebraic groups and strong approximation in affine varieties. (Russian. English summary) **89i:11053**

19B99 None of the above, but in this section

Items with secondary classifications in 19B99

Nicas, Andrew J. (*with* Stark, C. W.) Whitehead groups of certain hyperbolic manifolds. II. **89a:57017**

Stark, C. W. *see* **Nicas, Andrew J., 89a:57017**

Zizza, Frank Automorphisms of hyperbolic dynamical systems and K_2. **89m:58164**

19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

Items with secondary classifications in 19C09

Dupont, Johan L. (*with* Parry, Walter; Sah, Chih-Han) Homology of classical Lie groups made discrete. II. H_2, H_3, and relations with scissors congruences. **89h:22019**

Parry, Walter *see* **Dupont, Johan L.; et al., 89h:22019**

Sah, Chih-Han *see* **Dupont, Johan L.; et al., 89h:22019**

19C20 Symbols, presentations of K_2

Items with secondary classifications in 19C20

Abe, Eiichi (*with* Morita, Jun) Some Tits systems with affine Weyl groups in Chevalley groups over Dedekind domains. **89e:20086**

Clauwens, F. J. B. J. K-theory, λ-rings, and formal groups. **89c:18010**

Guin, Daniel Cohomologie et homologie non abéliennes des groupes. [Nonabelian group cohomology and homology] **89b:18017**

Morita, Jun *see* **Abe, Eiichi, 89e:20086**

Urbanowicz, Jerzy On elements of given order in K_2F. **89b:18013**

Wagoner, J. B. Gyration numbers, fixed points and K_2. **89g:58120**

19C30 K_2 and the Brauer group

Items with secondary classifications in 19C30

Kang, Ming Chang Metacyclic p-algebras. **89c:16023**

Kato, Kazuya Swan conductors with differential values. **89k:11117**

Mammone, Pasquale (*with* Tignol, Jean-Pierre) Dihedral algebras are cyclic. **89b:12005**

Merkur′ev, A. S. Milnor K-theory and Galois cohomology. **89k:12009**

— The group SK_2 for quaternion algebras. **89c:12001**

— The group SK_2 for quaternion algebras. **89e:12009**

Suslin, A. A. Torsion in K_2 of fields. **89a:11123**

Tignol, Jean-Pierre *see* **Mammone, Pasquale, 89b:12005**

19C40 Excision for K_2

Items with secondary classifications in 19C40

Ellis, Graham J. An eight term exact sequence in algebraic K-theory. **89i:18006**

19C99 None of the above, but in this section

Items with secondary classifications in 19C99

Fernández-Carmena, F. Correction: "On the injectivity of the map of the Witt group of a scheme into the Witt group of its function field" [Math. Ann. 277 (1987), no. 3, 453–468; MR 88h:11027]. **89b:11033**

Kolster, Manfred The structure of the 2-Sylow subgroup of $K_2(\mathfrak{o})$. II. **89h:11077**

Zizza, Frank Automorphisms of hyperbolic dynamical systems and K_2. **89m:58164**

19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Items with secondary classifications in 19D06

Giffen, Charles H. Loop spaces for the Q-construction. **89k:18021**

Gillet, H. (*with* Grayson, Daniel R.) The loop space of the Q-construction. **89h:18012**

Grayson, Daniel R. *see* **Gillet, H., 89h:18012**

Pascual Gainza, P. K-theory of categories of complexes, and applications. (Spanish. English summary) **89c:18013**

19D10 Algebraic K-theory of spaces

Items with secondary classifications in 19D10

Bökstedt, Marcel (*with* Waldhausen, Friedhelm) The map $BSG \to A(*) \to QS^0$. **89c:57041**

Cohen, Ralph L. A model for the free loop space of a suspension. **89d:55018**

— Pseudo-isotopies, K-theory, and homotopy theory. **89f:57028**

Farrell, F. T. (*with* Jones, Lowell Edwin) K-theory and dynamics. II. **89f:57029a**

— (*with* Jones, Lowell Edwin) Foliated control with hyperbolic leaves. **89f:57029b**

Grayson, Daniel R. Exact sequences in algebraic K-theory. **89c:18011**

Jones, Lowell Edwin *see* **Farrell, F. T., 89f:57029a** *and* **89f:57029b**

Kapranov, M. M. On the derived category and K-functor of coherent sheaves on intersections of quadrics. **89f:14014**

Krasauskas, R. (*with* Solov′ëv, Yu. P.) Rational Hermitian K-theory and dihedral homology. (Russian) **89j:18008**

Nicas, Andrew J. Mixed Hodge structure in cyclic homology and algebraic K-theory. I. **89f:18007**

Pascual Gainza, P. K-theory of categories of complexes, and applications. (Spanish. English summary) **89c:18013**

Shekhtman, V. V. On the delooping of Chern character and Adams operations. **89c:18015**

Solov′ëv, Yu. P. *see* **Krasauskas, R., 89j:18008**

Vigué-Poirrier, Micheline Sur l'algèbre de cohomologie cyclique d'un espace 1-connexe applications à la géometrie des variétés. [On the cyclic cohomology algebra of a 1-connected space; applications to the geometry of manifolds] **89e:55023**

Waldhausen, Friedhelm Algebraic K-theory of spaces, concordance, and stable homotopy theory. **89b:57019**

— An outline of how manifolds relate to algebraic K-theory. **89c:18017**

— *see also* **Bökstedt, Marcel, 89c:57041**

19D23 Symmetric monoidal categories [see also 18D10]

Items with secondary classifications in 19D23

Gubeladze, I. Dzh. On the K-theory of complete projective algebras. (Russian. English and Georgian summaries) **89g:18020**

Shimakawa, Kazuhisa Uniqueness of products in higher algebraic K-theory. **89i:18007**

19D25 Karoubi-Villamayor-Gersten K-theory

Items with secondary classifications in 19D25

Hodges, Timothy J. A noncommutative Bass-Tate sequence. **89c:18012**

Inasaridze, Kh. N. On the homotopization of Karoubi-Villamayor algebraic K-theory. (Russian. English and Georgian summaries) **89d:18003**

Laubenbacher, Reinhard C. Generalized Mayer-Vietoris sequences in algebraic K-theory. **89e:18022**

Weibel, C. K-théorie algébrique homotopique. (English summary) [Homotopy algebraic K-theory] **89f:18010**

19D35 Negative K-theory, NK and Nil

Items with secondary classifications in 19D35

Bryant, John Logan (*with* Pacheco, Peter S.) K_{-i} obstructions to factoring an open manifold. **89m:57019**

Pacheco, Peter S. *see* **Bryant, John Logan, 89m:57019**

Weibel, C. Nil K-theory maps to cyclic homology. **89b:18014**

19D45 Higher symbols, Milnor K-theory

Items with secondary classifications in 19D45

Hodges, Timothy J. A noncommutative Bass-Tate sequence. **89c:18012**

Hyodo, Osamu A note on p-adic étale cohomology in the semistable reduction case. **89h:14017**

Kurihara, Masato Abelian extensions of an absolutely unramified local field with general residue field. **89k:11118**

Merkur′ev, A. S. Milnor K-theory and Galois cohomology. **89k:12009**

Sivitskiĭ, I. Ya. Milnor K-theory of two-dimensional fields. (Russian) **89m:12005**

Suslin, A. A. Algebraic K-theory of fields. **89k:12010**

19D55 K-theory and homology

Items with secondary classifications in 19D55

Arlettaz, Dominique On the algebraic K-theory of Z. **89g:18019**

Betley, S. Homological stability for $O_{n,n}$ over a local ring. **89b:20090**

Block, Jonathan L. Cyclic homology of filtered algebras. **89b:18018**

Burghelea, Dan (*with* Vigué-Poirrier, Micheline) Cyclic homology of commutative algebras. I. **89k:18027**

Calvo, Adina Homologie de Hochschild et homologie cyclique de certaines algèbres de matrices triangulaires. (English summary) [The Hochschild and cyclic homology of some algebras of triangular matrices] **89c:18018**

Charney, Ruth A generalization of a theorem of Vogtmann. **89h:18010**

Connes, Alain Analyse et géométrie. [Analysis and geometry] **89h:58183**

— Cyclic cohomology and noncommutative differential geometry. **89h:58182**
— *see also* **Kastler, Daniel, 89h:18013**
Elliott, G. A. (*with* Natsume, Toshikazu; Nest, R.) Cyclic cohomology for one-parameter smooth crossed products. **89h:46093**
Ellis, Graham J. An eight term exact sequence in algebraic K-theory. **89i:18006**
Feĭgin, B. L. (*with* Tsygan, B. L.) Additive K-theory. **89a:18017**
— (*with* Tsygan, B. L.) Cyclic homology of algebras with quadratic relations, universal enveloping algebras and group algebras. **89c:17020**
Geller, S. (*with* Reid, Les; Weibel, C.) The cyclic homology and K-theory of curves. **89m:14006**
— (*with* Weibel, C.) Hochschild and cyclic homology are far from being homotopy functors. **89i:18010**
Getzler, Ezra Cyclic homology and the Beĭlinson-Manin-Schechtman central extension. **89h:17014**
Grayson, Daniel R. Exact sequences in algebraic K-theory. **89c:18011**
Hood, Christine E. (*with* Jones, John D. S.) Some algebraic properties of cyclic homology groups. **89f:18011**
Jones, John D. S. *see* **Hood, Christine E., 89f:18011**
Karoubi, Max Homologie cyclique et K-théorie. (English summary) [Cyclic homology and K-theory] **89c:18019**
Kassel, Christian K-théorie algébrique et cohomologie cyclique bivariantes. (English summary) [Bivariant algebraic K-theory and cyclic cohomology] **89j:18012**
— L'homologie cyclique des algèbres enveloppantes. (English summary) [The cyclic homology of enveloping algebras] **89e:17015**
Kastler, Daniel ★ Cyclic cohomology within the differential envelope. **89h:18013**
Loday, Jean-Louis Cyclic homology, a survey. **89e:18023**
— Homologies diédrale et quaternionique. [Dihedral and quaternionic homologies] **89e:18024**
— Comparaison des homologies du groupe linéaire et de son algèbre de Lie. (English summary) [Comparison of the homologies of the linear group and of its Lie algebra] **89i:17011**
— (*with* Procesi, C.) Homology of symplectic and orthogonal algebras. **89k:17035**
— Partition eulérienne et opérations en homologie cyclique. (English summary) [Eulerian partition and operations in cyclic homology] **89h:18017**
— Opérations sur l'homologie cyclique des algèbres commutatives. [Operations on the cyclic homology of commutative algebras] **89m:18017**
Madsen, Ib ★ Lectures on characteristic classes in algebraic topology. **89m:57023**
Marciniak, Zbigniew Cyclic homology of group rings. **89b:20023**
Natsume, Toshikazu *see* **Elliott, G. A.; et al., 89h:46093**
Nest, R. *see* **Elliott, G. A.; et al., 89h:46093**
Procesi, C. *see* **Loday, Jean-Louis, 89k:17035**
Reid, Les *see* **Geller, S.; et al., 89m:14006**
Seibt, Peter ★ Cyclic homology of algebras. **89i:18013**
Suslin, A. A. Algebraic K-theory of fields. **89k:12010**
— The Beĭlinson spectral sequence for the K-theory of the field of real numbers. (Russian) **89i:12005**
Tapia, Joseph Sur la pente du feuilletage de Kronecker et la cohomologie étale de l'espace des feuilles. (English summary) [On the slope of the Kronecker foliation and the étale cohomology of the leaf space] **89c:57038**
Thomason, R. W. Equivariant algebraic vs. topological K-homology Atiyah-Segal-style. **89f:14015**
Tsygan, B. L. *see* **Feĭgin, B. L., 89a:18017** *and* **89c:17020**
Uridiya, M. B. The Hermitian K-theory of rings of algebraic integers. (Russian. English and Georgian summaries) **89a:11037**
Vigué-Poirrier, Micheline Cyclic homology and Quillen homology of a commutative algebra. **89i:18011**
— *see also* **Burghelea, Dan, 89k:18027**
Weibel, C. Nil K-theory maps to cyclic homology. **89b:18014**
— *see also* **Geller, S., 89i:18010** *and* **89m:14006**
Wodzicki, Mariusz Cyclic homology of pseudodifferential operators and noncommutative Euler class. (French summary) **89h:58189**
— The long exact sequence in cyclic homology associated with an extension of algebras. (French summary) **89i:18012**
Xia, Dao Xing Cyclic cohomology associated with difference operators and anticommutators. **89g:47045**

19D99 None of the above, but in this section

Items with secondary classifications in 19D99

Carlsson, Gunnar Segal's Burnside ring conjecture and related problems in topology. **89g:55010**
Ellis, Graham J. Multirelative algebraic K-theory: the group $K_2(\Lambda; I_1, \cdots, I_n)$ and related computations. **89a:18016**
Grayson, Daniel R. The K-theory of semilinear endomorphisms. **89i:16021**
Khinich, V. A. (*with* Shekhtman, V. V.) On homotopy limit of homotopy algebras. **89d:55052**
Laubenbacher, Reinhard C. On the K-theory of $\mathbf{Z}G$, G a nonabelian group of order pq. **89f:18006**
Pataraya, D. A. Homology properties of algebraic K-theory. (Georgian. English and Russian summaries) **89c:18014**
Shekhtman, V. V. *see* **Khinich, V. A., 89d:55052**
Thomason, R. W. (*with* Trobaugh, Thomas F.) Le théorème de localisation en K-théorie algébrique. (English summary) [The localization theorem in algebraic K-theory] **89m:18015**
Trobaugh, Thomas F. *see* **Thomason, R. W., 89m:18015**
Webb, David L. G-theory of group rings for groups of square-free order. **89d:16014**

19Exx K-theory in geometry

19E08 K-theory of schemes

Items with secondary classifications in 19E08

Coombes, Kevin R. On the K-theory of curves over finite fields. **89d:14010**
Gillet, H. (*with* Soulé, C.) Intersection theory using Adams operations. **89d:14005**
Levine, Marc Localization on singular varieties. **89c:14015a**
— Erratum to: "Localization on singular varieties". **89c:14015b**
Soulé, C. p-adic K-theory of elliptic curves. **89c:14023**
— *see also* **Gillet, H., 89d:14005**
Srinivas, V. K_1 of the cone over a curve. **89e:14008**
Tamme, Günter The theorem of Riemann-Roch. **89d:14013**
Thomason, R. W. Equivariant algebraic vs. topological K-homology Atiyah-Segal-style. **89f:14015**

19E15 Algebraic cycles [see also 14C35]

Items with secondary classifications in 19E15

Friedlander, Eric M. Homology using Chow varieties. **89i:14004**
Gillet, H. K-theory and intersection theory revisited. **89c:14014**
Gros, Michel (*with* Suwa, Noriyuki) Application d'Abel-Jacobi p-adique et cycles algébriques. [The p-adic Abel-Jacobi mapping and algebraic cycles] **89h:14006a**
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19E20 Relations with cohomology theories [see also 14F15]

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19Fxx K-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory

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19F15 Symbols and arithmetic

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9Gxx *K*-theory of forms [see also 11Exx]

9G12 Witt groups of rings [see also 11E81]

ems with secondary classifications in 19G12

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9G24 *L*-theory of group rings [see also 11E81]

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9G38 Relations with *K*-theory of rings

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19Kxx *K*-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

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19K56 Index theory

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— Cyclic cohomology and noncommutative differential geometry. **89h:58182**
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19Lxx Topological *K*-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

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19L20 *J*-homomorphism, Adams operations [see also 55Q50]

Items with secondary classifications in 19L20

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19L41 Connective *K*-theory, cobordism [see also 55N22]

Items with secondary classifications in 19L41

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19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

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19L64 Computations, geometric applications

Items with secondary classifications in 19L64

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20–XX Group theory and generalizations

20–01 Elementary exposition; textbooks

Aschbacher, Michael ★ Finite group theory. **89b:20001**
(**Balcerzyk, Stanisław**) *see* **Serre, Jean-Pierre, 89k:20001**
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Items with secondary classifications in 20–01

Blyth, T. S. (*with* Robertson, Edmund F.) ★ Abstract algebra. **89b:00001c**
— (*with* Robertson, Edmund F.) ★ Groups. **89b:00001e**
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20–02 Advanced exposition (research surveys, monographs, etc.)

Beletskii, P. M. *see* **Kaluzhnin, L. A.; et al., 89g:20001**
(**Bloshchitsyn, V. Ya.**) *see* **Kourovka notebook, 89f:20002**
(**Churkin, V. A.**) *see* **Kourovka notebook, 89f:20002**
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Shirvani, M. (*with* Wehrfritz, B. A. F.) ★ Skew linear groups. **89h:20001**
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Ol'shanskiĭ, A. Yu. *see* **Bakhturin, Yu. A., 89j:08001**

20–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 20–03

Gray, Jeremy ★ Linear differential equations and group theory from Riemann to Poincaré. **89d:01041**
Mac Lane, Saunders Group extensions for 45 years. **89d:01049**
(**Mal'tsev, A. I.**) *see* **Merzlyakov, Yu. I., 89c:01038**
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Scharlau, Winfried Die Entdeckung der Sylow-Sätze. (English and French summaries) [The discovery of the Sylow theorems] **89f:01041**
(**Sylow, L.**) *see* **Scharlau, Winfried, 89f:01041**
Szép, J. *see* **Pálfy, Péter Pál, 89m:01106**
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20–04 Explicit machine computation and programs (not the theory of computation or programming)

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Butler, Gregory A proof of Holt's algorithm. **89k:20002**
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20–06 Proceedings, conferences, etc.

(**Birman, Joan S.**) *see* **Braids, 89f:20003**
(**Cheng, Kai Nah**) *see* **Group theory, 89j:20001**
(**Goldman, William M.**) *see* **Geometry of group representations, 89c:20002**
(**Hahn, Alexander J.**) *see* **Classical groups and related topics, 89h:20002**
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(**Jürgensen, H.**) *see* **Semigroups, theory and applications, 89c:20005**
(**Lallement, Gérard J.**) *see* **Semigroups, theory and applications, 89c:20005**
(**Leong, Yu Kiang**) *see* **Group theory, 89j:20001**
(**Libgober, A.**) *see* **Braids, 89f:20003**
(**Lyapin, E. S.**) *see* **Homomorphisms, 89k:20004**
(**Magid, Andy R.**) *see* **Geometry of group representations, 89c:20002**
(**Mitropol′skiĭ, Yu. A.**) *see* **Investigations of groups with restrictions for subgroups, 89j:20002**
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(**Marchionna Tibiletti, Cesarina**) *see* **Proceedings: Seminar on Noncommutative Algebra, 89c:16001**
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20Axx Foundations

20A05 Axiomatics and elementary properties

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20Bxx Permutation groups

20B05 General theory for finite groups

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20B20 Multiply transitive finite groups

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20B27 Infinite automorphism groups [see also 12F10]

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Yoshizawa, Mitsuo Graphs with given countable infinite group. **89b:05100**

20B30 Symmetric groups, general

Cameron, Peter J. (*with* Deza, M.; Frankl, Peter) Sharp sets of permutations. **89c:20011**

Deza, M. *see* **Cameron, Peter J.; et al., 89c:20011**

Frankl, Peter *see* **Cameron, Peter J.; et al., 89c:20011**

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Brown, Ron Minimal covers of S_n by abelian subgroups and maximal subsets of pairwise noncommuting elements. **89i:20043**

Brunson, Barry W. The partial order of iterated exponentials. **89d:06001**

Conder, Marston On the group $G^{6,6,6}$. **89e:20061**

Johnson, John L. Neural networks and the symmetric group S_N. (*see* **89b:00029**)

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Kung, Joseph P. S. (*with* Sutherland, David C.) The automorphism group of the strong order of the symmetric group. **89b:20016**

Sonn, J. Double covers of S_5 and Frobenius groups as Galois groups over number fields. **89f:11155**

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20B35 Subgroups of symmetric groups

Bagiński, Czesław On sets of elements of the same order in the alternating group A_n. **89b:20019**

Burns, J. M. (*with* Goldsmith, B.) Maximal order abelian subgroups of symmetric groups. **89i:20013**

Cameron, Peter J. Geometric sets of permutations. **89i:20014**

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Easdown, David (*with* Praeger, Cheryl E.) On minimal faithful permutation representations of finite groups. **89i:20007**

Neumann, Peter M. Homogeneity of infinite permutation groups. **89c:20009**

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Praeger, Cheryl E. *see* **Easdown, David, 89i:20007**

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(Jacobson, E.) *see* **Krämer, Helmut, 89i:20015**

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Cameron, Peter J. Some treelike objects. **89a:05009**
Drápal, A. (*with* Kepka, T.) Parity of orthogonal permutations. **89b:20144**
Hässelbarth, Werner The inverse problem of isomer enumeration. **89a:92084**
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Obata, Nobuaki A note on certain permutation groups in the infinite-dimensional rotation group. **89c:11020**
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Trach, S. S. *see* **Zefirov, N. S.; et al., 89a:20032**
Wang, Yang Decomposition of cycles of step length L and an optimal algorithm for it. (Chinese. English summary) **89g:05067**
Zefirov, N. S. (*with* Kaluzhnin, L. A.; Trach, S. S.) A generalization of the concept of the wreath product of permutation groups and its application for the description of the structural formulas of chemical compounds. (Russian) **89a:20032**

20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

20C05 Group rings of finite groups and their modules [see also 16A26]

Allen, P. J. (*with* Hobby, C.) A characterization of units in ZS_4. **89g:20005**
Alperin, J. L. Loewy structure of permutation modules for p-groups. **89f:20005**
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Bagiński, Czesław The isomorphism question for modular group algebras of metacyclic p-groups. **89i:20016**
Bovdi, A. A. Unitary subgroup of the multiplicative group of a group algebra. (Ukrainian. Russian summary) (Not in MR)
Erdmann, Karin Algebras and quaternion defect groups. I, II. **89j:20005**
— Algebras and semidihedral defect groups. I. **89e:20010**
Faradzhev, I. A. Cellular subrings of a symmetric Cartesian square of cellular rings of rank 3. (Ukrainian. Russian summary) (Not in MR)
Fleischmann, Peter Periodic simple modules for $\mathrm{SU}_3(q^2)$ in the describing characteristic $p \neq 2$. **89g:20006**
Franchetta, Anna On the modular representations of a cyclic p-group. (Italian) **89b:20020**
Gonçalves, Jairo (*with* Ritter, Jürgen; Sehgal, Sudarshan K.) Subnormal subgroups in $U(ZG)$. **89h:20006**
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Hambleton, I. (*with* Taylor, Laurence R.; Williams, E. B.) On $G_n(RG)$ for G a finite nilpotent group. **89h:20008**
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Hoechsmann, Klaus Norms and traces in p-adic abelian group rings. **89g:20007**
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Oliver, Robert Central units in p-adic group rings. **89f:20006**
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Brandis, Albrecht Moduln und verschränkte Homomorphismen endlicher Gruppen. [Modules and crossed homomorphisms of finite groups] **89b:20047**
DeMeyer, F. R. (*with* Mollin, R. A.) Invariants of group rings. **89j:16013**
Harris, Morton E. On classical Clifford theory. **89i:20023**
Hoechsmann, Klaus Units and class-groups in integral elementary abelian group rings. **89b:16007**
— (*with* Sehgal, Sudarshan K.) Units in regular abelian p-group rings. **89m:11105**
Imai, Hideki Multivariate polynomials in coding theory. **89a:94019**
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Li, Wei^1 The Jacobson radical of a tensor product of algebras. (Chinese) **89g:16014**
Linnell, P. A. (*with* Stammbach, U.) On the cohomology of p-constrained groups. **89f:20055**
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— Erratum: "Biregular crossed products". **89f:16013b**
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Paris, Luis Some examples of group algebras without filtred multiplicative basis. **89b:16009**
Roggenkamp, K. W. Some new progress on the isomorphism problem for integral group rings. **89h:16008**
Roseblade, J. E. Five lectures on group rings. **89b:20024**
Sehgal, Sudarshan K. *see* **Hoechsmann, Klaus, 89m:11105**
Shamash, Josephine Blocks and Brauer trees for groups of type $G_2(q)$. **89c:20024**
Stammbach, U. *see* **Linnell, P. A., 89f:20055**
Swan, Richard G. Torsion free cancellation over orders. **89i:16002**
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20C07 Group rings of infinite groups and their modules [see also 16A27]

Bovdi, A. A. Unitariness of the multiplicative group of a group algebra. (Russian. English and Estonian summaries) **89b:20022**
— The structure of the multiplicative group of an integral group ring. **89m:20007**
Buzási, Károly On the structure of a real crossed group algebra. **89k:20010**
Farkas, Daniel R. The Diophantine nature of some constructions at infinity. **89m:20008**
Gupta, Chander Kanta (*with* Gupta, Narain; Levin, Frank) On dimension subgroups relative to certain product ideals. **89a:20005**
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Kurdachenko, L. A. *see* **Karbe, M. J., 89m:20009**
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Marciniak, Zbigniew Cyclic homology of group rings. **89b:20023**
Pataĭ, Z. F. Structure of the center of the multiplicative group of a group ring. (Ukrainian. Russian summary) (Not in MR)
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Symonds, Peter Relative characters for H-projective RG-lattices. **89e:20012**
Vermani, L. R. *see* **Karan, Ram, 89f:20007**
Wallace, D. A. R. On the automorphism group of the integral group ring of the infinite dihedral group. **89b:20025**

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Cedó, Ferran On the maximal quotient ring of regular group rings. **89d:16015**
— The maximal quotient ring of regular group rings. II. **89i:16007**
Cliff, Gerald (*with* Weiss, Alfred R.) Moody's induction theorem. **89h:16009**
Crawley-Boevey, W. W. (*with* Kropholler, P. H.; Linnell, P. A.) Torsion-free soluble groups, completions, and the zero divisor conjecture. **89j:16015**
Dubrovin, N. I. Invertibility of the group ring of a right-ordered group over a division ring. (Russian) **89a:16012**
Eckmann, Beno Nilpotent group action and Euler characteristic. **89d:57032**
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Kolikov, K. Crossed products which are rings of principal ideals. (Russian) **89b:16010**
Kropholler, P. H. *see* **Crawley-Boevey, W. W.; et al., 89j:16015**
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Promislow, S. David A simple example of a torsion-free, nonunique product group. **89e:20064**
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Röhl, Frank On the isomorphism problem for group rings and completed augmentation ideals. **89a:16015**
Shah, Sudesh K. *see* **Srivastava, J. B., 89g:16019**
Srivastava, J. B. (*with* Shah, Sudesh K.) Group algebras with every proper quotient finite-dimensional. **89g:16019**
Stembridge, John R. Rational tableaux and the tensor algebra of gl_n. **89a:05012**
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Ullery, William Modular group algebras of N-groups. **89g:20087**
Vasantha, W. B. Zero square group rings. (Not in MR)
Vovsi, S. M. Homogeneous varieties of representations of groups. **89m:20023**
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Welsh, Charles C. Prime length of crossed products. **89k:16019**

0C10 Integral representations of finite groups

anusz, G. J. An inequality in integral representation theory. **89f:20008**
oggenkamp, K. W. Picard groups of group rings, in particular p-groups. **89c:20016**
- Picard groups of integral group rings of nilpotent groups. **89e:20013**
ymonds, Peter Cohomological methods in integral representation theory. **89m:20010**
orriani, Hugo H. Faithful integral and modular representations of the Klein bottle group. **89i:20017**

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röhlich, Albrecht Module defect and factorisability. **89g:11108**
Haefner, Jeremy Direct sum behavior of lattices over sigma-I rings. **89d:13007**
uo, Hui Lie *see* **Yuan, Wang Zhi, 89g:22018**
iehm, C. The Schur subgroup of the Brauer group of cyclotomic rings of integers. **89c:13005**
obinson, Geoffrey R. Some remarks on permutation modules. **89k:20018**
andling, Robert A proof of the class sum correspondence using the real group algebra. **89j:20008**
wan, Richard G. Torsion free cancellation over orders. **89i:16002**
ymonds, Peter The cohomology representation of an action of C_p on a surface. **89b:57021**
uan, Wang Zhi (*with* Luo, Hui Lie) Reduction of a higher-dimensional representation space. (Chinese. English summary) **89g:22018**

20C11 p-adic representations of finite groups

Borm, G. F. (*with* Schikhof, W. H.; de Vries, Hendrik) p-adic representative functions on abelian groups. **89g:20011**
Schikhof, W. H. *see* **Borm, G. F.; et al., 89g:20011**
de Vries, Hendrik *see* **Borm, G. F.; et al., 89g:20011**

Items with secondary classifications in 20C11

Cliff, Gerald (*with* Plesken, W.; Weiss, Alfred R.) Order-theoretic properties of the center of a block. **89b:20033**
Kato, Kazuya (*with* Saito, Shuji; Saito, Takeshi) Artin characters for algebraic surfaces. **89d:14027**
Plesken, W. *see* **Cliff, Gerald; et al., 89b:20033**
Saito, Shuji *see* **Kato, Kazuya; et al., 89d:14027**
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Weiss, Alfred R. *see* **Cliff, Gerald; et al., 89b:20033**

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Items with secondary classifications in 20C12

Robinson, Derek J. S. (*with* Zhang, Zhi Rang) Groups whose proper quotients have finite derived subgroups. **89m:20038**
Zhang, Zhi Rang *see* **Robinson, Derek J. S., 89m:20038**

20C15 Ordinary representations and characters

Angelova, M. N. *see* **Dirl, R.; et al., 89e:20014**
Arad, Zvi (*with* Fisman, Elsa) On products of irreducible characters and conjugacy classes of finite groups in complementary sets. **89a:20006**
— (*with* Fisman, Elsa) About products of irreducible characters and products of conjugacy classes in finite groups. **89c:20017**
Aroyo, M. I. *see* **Dirl, R.; et al., 89e:20014**
Barry, Michael J. J. Schur indices and ${}^3D_4(q^3)$, q odd. **89h:20010**
Berkovich, Ya. G. On irreducible components of a restriction of an irreducible induced character to a normal subgroup. **89j:20009**
— Degrees of irreducible characters and normal p-complements. **89i:20018**
Bier, Thomas (*with* Cheng, Kai Nah; Hartley, Brian) A remark on association schemes on finite groups. **89j:20010**
Blau, Harvey I. On linear groups with a cyclic or T.I. Sylow subgroup. **89h:20011**
Cameron, Peter J. (*with* Kiyota, Masao) Sharp characters of finite groups. **89b:20026**
Carlson, Jon F. (*with* Roggenkamp, K. W.) Itô's theorem and character degrees revisited. **89b:20027**
Carter, R. W. Irreducible characters of finite groups of Lie type. **89c:20018a**
Cheng, Kai Nah *see* **Bier, Thomas; et al., 89j:20010**
Chillag, David Characters, nonnegative matrices, and generalized circulants. **89b:20028**
— Generalized circulants and class functions of finite groups. II. **89j:20011**
Collins, Michael J. Characters of finite groups having a self-normalising cyclic subgroup. **89i:20019**
Cram, G.-Martin On the field of character values of finite solvable groups. **89i:20020**
Curtis, Ch. The Hecke algebra of a finite Coxeter group. **89c:20018b**
Dade, Everett C. Accessible characters are monomial. **89h:20012**
Dirl, R. (*with* Kasperkovitz, P.; Kotzev, J. N.; Aroyo, M. I.; Angelova, M. N.) The symmetry of group representations and the reduction of the multiplicity problem. **89e:20014**
Enomoto, Hikoe (*with* Yamada, Hiromichi) The characters of $G_2(2^n)$. **89d:20006**
Espuelas, Alberto A noncoprime Shult type theorem. **89e:20015**
Feit, Walter Extensions of cuspidal characters of $\mathrm{GL}_m(q)$. **89d:20007**
Ferguson, Pamela A. Character restriction and relative normal complements. **89k:20011**
Fisman, Elsa *see* **Arad, Zvi, 89a:20006** *and* **89c:20017**
Gow, Roderick Real 2-blocks of S_n, A_n and their double covers. **89g:20013**
— (*with* Huppert, Bertram) Degree problems of representation theory over arbitrary fields of characteristic 0. On theorems of N. Itô and J. G. Thompson. **89b:20029**
— (*with* Huppert, Bertram) Degree problems of representation theory over arbitrary fields of characteristic 0. II. Groups which have only two reduced degrees. **89i:20021**
— Real 2-blocks of characters of finite groups. **89g:20012**
— Schur indices and irreducible character degrees in finite solvable groups. **89k:20012**
Grove, L. C. *see* **Wang, K. S., 89g:20018**
Gunter, Elsa L. M-groups with Sylow towers. **89g:20014**
Hartley, Brian *see* **Bier, Thomas; et al., 89j:20010**
Hekster, N. S. (*with* van der Waall, Robert W.) Monomiality and 2-isoclinism of groups. **89j:20012**
Huppert, Bertram *see* **Gow, Roderick, 89b:20029** *and* **89i:20021**
Isaacs, I. M. Characters and Hall subgroups of solvable groups. **89d:20008**
— Characters of solvable groups. **89f:20009**
— Counting objects which behave like irreducible Brauer characters of finite groups. **89g:20015**
Kasperkovitz, P. *see* **Dirl, R.; et al., 89e:20014**
Kiyota, Masao *see* **Cameron, Peter J., 89b:20026**
Kletzing, Dennis Rational representations of finite groups: the story of γ. **89c:20019**
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Leonard, Henry S. On the Brauer-Suzuki theorem. **89c:20020**
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Lubotzky, A. (*with* Magid, Andy R.) Local structure of representation varieties: examples. **89j:20013**
Magid, Andy R. *see* **Lubotzky, A., 89j:20013**
Manz, Olaf (*with* Staszewski, R.; Willems, Wolfgang) On the number of components of a graph related to character degrees. **89b:20030**
Michler, Gerhard O. An algorithm for determining the simplicity of a modular group representation. **89h:20013**
Navarro, Gabriel On the Glauberman correspondence. **89k:20013**
Nekrasov, K. G. Nonnilpotent finite groups with a large sum of degrees of irreducible complex characters. (Russian) **89d:20009**
Remmel, J. B. Computing cocharacters of sign trace identities. **89g:20016**
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Saksonov, A. I. A criterion for the p-closure of a finite group in terms of the degrees of its characters. (Russian) **89e:20016**
Schmid, Peter Clifford theory of simple modules. **89k:20014**
Slattery, Michael C. Character degrees and derived length in p-groups. **89g:20017**
Staszewski, R. *see* **Manz, Olaf; et al., 89b:20030**
Takegahara, Yugen The character rings of finite groups and generalized Dedekind sums. (*see* **89k:16001**)
Turull, Alexandre Polynomials associated to characters. **89h:20014**
van der Waall, Robert W. Direct products and monomial characters. **89j:20014**
— *see also* **Hekster, N. S., 89j:20012**
Wang, K. S. (*with* Grove, L. C.) Realizability of representations of finite groups. **89g:20018**
Willems, Wolfgang *see* **Manz, Olaf; et al., 89b:20030**
Yamada, Hiromichi *see* **Enomoto, Hikoe, 89d:20006**

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Alvis, Dean Families of irreducible characters of Weyl groups. **89c:20059**
Arad, Zvi Table algebras and applications to finite group theory. **89h:20005**
Ariki, Susumu On the representations of the Weyl groups of type D corresponding to the zero weights of the representations of $\mathrm{SO}(2n, \mathbf{C})$. **89k:22022**
Belonogov, V. A. Interactions in finite groups and vector spaces. (Russian) **89e:20017**
Cárdenas, Humberto (*with* Lluis, Emilio) On the Chern classes of representations of the symmetric groups. **89k:20075**
Carini, Luisa The cocharacter sequence of the finite-dimensional Grassmann algebra. **89j:16026**
Carter, R. W. ★ On the structure and complex representation theory of finite groups of Lie type. **89a:20046**
Digne, François Descente du corps de base et blocs, d'après N. Kawanaka. [Descent of the ground field and blocks, following N. Kawanaka] **89a:20051**
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Güzel, Erhan Les représentations irréductibles complexes des groupes $\mathrm{SL}(3,p)$, $\mathrm{PSL}(3,p)$. [Complex irreducible representations of the groups $\mathrm{SL}(3,p)$ and $\mathrm{PSL}(3,p)$] **89j:20042**
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— Blocs, isométries parfaites, catégories dérivées. (English summary) [Blocks, perfect isometries, derived categories] **89e:20018**
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— A note on extensions of p-blocks by p-groups and their characters. **89e:20020**
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— (*with* Jones, Alfredo) Wild categories of periodic modules. **89g:20021**
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Donovan, P. W. A criterion for a modular representation to be projective. **89g:20023**
Duan, Xue Fu Some problems in the block theory of modular representations. **89k:20015**
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Fan, Yun Block covers and module covers of finite groups. **89k:20016**
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Harris, Morton E. On classical Clifford theory. **89i:20023**
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Schulz, Rainer Tensoring Auslander-Reiten sequences with modules. **89f:20014**
Shamash, Josephine Blocks and Brauer trees for groups of type $G_2(q)$. **89c:20024**
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Usami, Yoko On p-blocks with abelian defect groups and inertial index 2 or 3. I. **89i:20024**
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Yoshida, Tomoyuki On a theorem of Benson and Parker. **89g:20028**
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Carter, R. W. Raising and lowering operators for $\mathfrak{sl}_n$, with applications to orthogonal bases of $\mathfrak{sl}_n$-modules. **89h:17008**
Dade, Everett C. Clifford theory for group-graded rings. II. **89f:16001**
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Gow, Roderick Real 2-blocks of S_n, A_n and their double covers. **89g:20013**
— Real 2-blocks of characters of finite groups. **89g:20012**
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Jantzen, J. C. Representations of Chevalley groups in their own characteristic. **89g:20076**
Klimov, A. I. The divisibility of Dirichlet characters. (Russian) (*see* **89a:11006**)
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Michler, Gerhard O. An algorithm for determining the simplicity of a modular group representation. **89h:20013**
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Pittaluga, Marilena (*with* Strickland, Elisabetta) On computers and modular representations of SL$_n(K)$. **89k:22025**
Sawada, Hideki An extension of the method of Iwahori algebra. **89e:20080**
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Reynolds, William F. Noncommutators and the number of projective characters of a finite group. **89c:20027**
Urbanik, Witold The Schur multipliers of generalized reflection groups. **89i:20026**
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— (*with* Yaseen, A. K.) Decomposition matrices for spin characters of symmetric groups. **89f:20017**
Nazarov, M. L. An orthogonal basis in irreducible projective representations of the symmetric group. **89f:20019**
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Cummins, C. J. (*with* Patera, J.) Polynomial icosahedral invariants. **89h:20023**
— On Kronecker products of irreducible representations of the symmetric group. **89g:20029**
Edigaryan, B. M. Representation algebra of finite cyclic p-groups. (Russian. Armenian summary) (Not in MR)
Eğecioğlu, Ö. N. (*with* Remmel, J. B.) A combinatorial proof of the Giambelli identity for Schur functions. **89i:20027**
Garsia, A. M. (*with* McLarnan, T. J.) Relations between Young's natural and the Kazhdan-Lusztig representations of S_n. **89f:20016**
Golembiowski, Andreas Zur Berechnung modular irreduzibler Matrixdarstellungen symmetrischer Gruppen mit Hilfe eines Verfahrens von M. Clausen. [On the computation of modular irreducible matrix representations of symmetric groups by means of a method of M. Clausen] **89b:20038**
Grabmeier, Johannes (*with* Kerber, Adalbert) The evaluation of irreducible polynomial representations of the general linear groups and of the unitary groups over fields of characteristic 0. **89e:20029**
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Di Vincenzo, O. M. On the Kronecker product of S_n-cocharacters for P.I. algebras. **89m:16024**
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Fried, M. Irreducibility results for separated variables equations. **89a:14004**
Garsia, A. M. (*with* Remmel, J. B.) Shuffles of permutations and the Kronecker product. **89h:05006**
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Giambruno, A. Polynomial identities with involution and the hyperoctahedral group. **89a:16025**
Gow, Roderick Real 2-blocks of S_n, A_n and their double covers. **89g:20013**
Grone, Robert (*with* Merris, Russell; Watkins, William Earl) Cones in the group algebra related to Schur's determinantal inequality. **89e:15011**
Jackson, D. M. Some combinatorial problems associated with products of conjugacy classes of the symmetric group. **89k:05009**
— Counting semiregular permutations which are products of a full cycle and an involution. **89b:05013**
James, Gordon Permanents, immanants, and determinants. **89g:15008**
Koike, Kazuhiko (*with* Terada, Itaru) Young-diagrammatic methods for the representation theory of the groups Sp and SO. **89b:20086**
Kouwenhoven, Frank M. The λ-structure of the Green rings of cyclic p-groups. **89e:20022**
Kraśkiewicz, Witold Some remarks on the hook formula. (Italian summary) **89g:14039**
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— *see also* **Garsia, A. M., 89h:05006**
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Chen, Yu On the representations of skew linear groups. **89m:20013**
Obata, Nobuaki Certain unitary representations of the infinite symmetric group. I. **89a:20011**
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— (*with* Davies, B. L.) Chain adaptation of space group representations and induced space group Clebsch-Gordan matrices. **89j:20019**
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— *see also* **Dirl, R.; et al., (89d:81001)**
Aroyo, M. I. *see* **Dirl, R.; et al., (89d:81001)** *and* **Angelova, M. N.; et al., (89d:81001)**
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Butler, Philip H. *see* **Searle, Barry G., 89i:81037; 89k:81046** *and* **89m:81061**
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Cummins, C. J. (*with* Patera, J.) Polynomial icosahedral invariants. **89h:20023**
Derrick, G. H. Complete orthonormal sets on the past light cone. I. Functions belonging to mass zero and helicity s. **89e:81066**
Dirl, R. (*with* Kasperkovitz, P.; Kotzev, J. N.; Aroyo, M. I.; Angelova, M. N.) The symmetry of the group representations and the reduction of the multiplicity problem. (*see* **89d:81001**)
Faessler, Amand (*with* Kyrchev, G.; Nojarov, R.) Boson quasispin in the generalised Bohr-Mottelson model. **89k:81194**
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Iwakiri, Takashi (*with* Kamiya, Tsueharu; Maekawa, Takayoshi) Note on SO(1, 3) and the Coulomb scattering. **89m:81188**
Jucys, A.-A. A. The algebra of subclasses of a finite group. (Russian. English and Lithuanian summaries) **89c:20013**
Kamiya, Tsueharu *see* **Iwakiri, Takashi; et al., 89m:81188**
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Koptsik, V. A. (*with* Chechin, G. M.) Color symmetry and representations of space groups in the theory of phase transitions. (Russian) (*see* **89d:81001**)
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Kuzhukeev, U. M. (*with* Kuzhukeev, Zh. N. M.) Molino functions for representations of four-dimensional point groups. (Russian) (*see* **89d:81001**)
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Louck, J. D. (*with* Stein, Paul R.) Weight-2 zeros of $3j$ coefficients and the Pell equation. **89b:81065**
Lulek, B. (*with* Lulek, T.) Wigner-Racah calculus for transitive representations of cyclic groups. **89e:81045**
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Lyubimov, D. V. *see* **Zaks, M. A.; et al., 89k:58226**
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Patera, J. *see* **Cummins, C. J., 89h:20023**
Perevalov, V. I. *see* **Zhilinskiĭ, B. I.; et al., 89f:81277**
Pikovskiĭ, A. S. *see* **Zaks, M. A.; et al., 89k:58226**
Searle, Barry G. (*with* Butler, Philip H.) 6-j for mixed symmetry triads in K_{20}. **89i:81037**
— (*with* Butler, Philip H.) Recursive calculation of transformation factors in terms of primitive factors. **89k:81046**
— (*with* Butler, Philip H.) Calculation of primitive 6-j symbols. **89m:81061**
Stahlhofen, A. *see* **Wu, Jian Shi; et al., 89b:81238**
Stein, Paul R. *see* **Louck, J. D., 89b:81065**
Sun, Chang Pu Indecomposable generalisations of the standard angular momentum representations of SO(3). **89a:81034**
Tyuterev, Vl. G. *see* **Zhilinskiĭ, B. I.; et al., 89f:81277**
Wu, Jian Shi (*with* Stahlhofen, A.; Biedenharn, L. C.; Iachello, F.) A group theoretical calculation of the S matrix for the Dirac-Coulomb problem. **89b:81238**
Zaks, M. A. (*with* Lyubimov, D. V.; Pikovskiĭ, A. S.) Universalities and scaling of transition to chaos through homoclinic bifurcations. (Russian. English summary) **89k:58226**
Zhang, Qian Er (*with* Li, Xiang Zhu) Coupling coefficient for the symmetric and unitary

groups. **89e:81047**
Zhilinskii, B. I. (*with* Perevalov, V. I.; Tyuterev, Vl. G.) ★ Метод неприводимых тензорных операторов в теории спектров молекул. (Russian) [The method of irreducible tensor operators in the theory of the spectra of molecules] **89f:81277**

20C99 None of the above, but in this section

Espuelas, Alberto A nonabelian Frobenius-Wielandt complement. **89b:20042**
Ochoa, G. A complete description of the outer plethysm in $R(S)$. **89i:20029**
Panasyuk, A. V. Induced representations of finite ring groups. (Russian) **89g:20032**
Vovsi, S. M. Some radical classes of algebraic representations of groups. (Russian) **89k:20022**

Items with secondary classifications in 20C99

(Balcerzyk, Stanisław) *see* **Serre, Jean-Pierre, 89k:20001**
Bovdi, A. A. The structure of the multiplicative group of an integral group ring. **89m:20007**
Mason, Geoffrey Finite groups and modular functions. **89c:11066**
Murakami, Jun The Kauffman polynomial of links and representation theory. **89c:57007**
(Norton, S. P.) *see* **Mason, Geoffrey, 89c:11066**
Schempp, Walter The oscillator representation of the metaplectic group applied to quantum electronics and computerized tomography. **89k:22013**
Serre, Jean-Pierre ★ Reprezentacje liniowe grup skończonych. (Polish) [Linear representations of finite groups] **89k:20001**
Smith, Ken W. Flag algebras of a symmetric design. **89i:51007**
Stroth, G. (*with* Wong, Sia K.) Minimal parabolic systems and small representations. **89d:20040**
Traczyk, Paweł The cancellation problem for homotopy equivalent representations of finite groups: a survey. **89c:57053**
Vougiouklis, Th. Representations of hypergroups. Hypergroup algebra. **89a:20071**
Ward, Harold N. Coding theory and representation theory. **89c:94036**
Wong, Sia K. *see* **Stroth, G., 89d:20040**

20Dxx Abstract finite groups

20D05 Classification of simple and nonsolvable groups

Fomin, A. N. Classes of finite simple groups. **89j:20021**
Gomi, Kensaku A pushing up theorem for groups of characteristic 2 type. **89f:20020**
Hochheim, York (*with* Timmesfeld, Franz) A note on TI-subgroups. **89h:20024**
Li, Shi Rong A class of finite nonsolvable groups. (Chinese. English summary) **89f:20021**
— (*with* Zhao, Yao Qing) Some finite nonsolvable groups characterized by their solvable subgroups. **89h:20025**
— Finite groups in which every supersolvable subgroup is either 2-closed or a Shmidt group. (Chinese) **89j:20022**
Makhnëv, A. A. Groups with triangular classes of involutions. **89e:20033**
Moori, Jamshid Action tables for the Fischer group $\overline{F}_{22}$. **89m:20015**
Pal'chik, È. M. Properties of finite 2-constrained groups. (Russian) **89f:20022**
Prince, Alan R. On certain permutation representations of the Hall-Janko group. **89m:20016**
Seitz, Gary M. Representations and maximal subgroups. **89c:20029**
Shpektorov, S. V. Geometric characterization of the groups A_7, $L_2(11)$ and $L_2(25)$. (Russian) **89d:20014**
Suzuki, Michio A remark on finite groups having a split BN-pair of rank one with characteristic two. **89b:20043**
Timmesfeld, Franz *see* **Hochheim, York, 89h:20024**
Vershinin, V. K. On a pushing-up problem for the groups $L_2(2)$ and $L_3(2)$. (Russian) **89g:20033**
Zhang, Guang Xiang On self-normalizing cyclic subgroups. **89c:20030**
Zhao, Yao Qing *see* **Li, Shi Rong, 89h:20025**

Items with secondary classifications in 20D05

Aschbacher, Michael ★ Finite group theory. **89b:20001**
Chen, Zhong Mu On orders of finite simple groups. (Chinese) **89b:11024**
Dalla Volta, Francesca Sporadic groups generated by three involutions. (Italian. English summary) **89f:20023**
Grundhöfer, Theo The groups of projectivities of finite projective and affine planes. **89f:51038**
Kleidman, Peter B. (*with* Liebeck, Martin W.) A survey of the maximal subgroups of the finite simple groups. **89e:20058**
Liebeck, Martin W. (*with* Saxl, Jan) On the orders of maximal subgroups of the finite exceptional groups of Lie type. **89b:20068**
— *see also* **Kleidman, Peter B., 89e:20058**
Meierfrankenfeld, Ulrich Pushing up $\mathrm{Sp}(4,2^k)$. (German) **89i:20036a**
— Pushing up $\mathrm{Sp}(4,q)$, q odd. **89i:20036b**
Michler, Gerhard O. Modular representation theory and the classification of finite simple groups. **89b:20034**
Saxl, Jan *see* **Liebeck, Martin W., 89b:20068**
Stroth, G. A local classification of some finite classical Tits geometries and chamber systems of characteristic $\neq 3$. **89j:51004**
Vera López, Antonio Finite groups with a small number of conjugacy classes outside of the socle. (Spanish. English summary) **89a:20023**

20D06 Simple groups: alternating and classical groups [see also 20Gxx, 22Exx]

Artmann, Benno A simple proof for the simplicity of A_5. **89e:20034**
Tamburini Bellani, Maria Chiara (*with* Wilson, John S.) On the generation of finite simple groups by pairs of subgroups. **89g:20034**
Wilson, John S. *see* **Tamburini Bellani, Maria Chiara, 89g:20034**

Items with secondary classifications in 20D06

Liebeck, Martin W. (*with* Praeger, Cheryl E.; Saxl, Jan) A classification of the maximal subgroups of the finite alternating and symmetric groups. **89b:20008**
Praeger, Cheryl E. *see* **Liebeck, Martin W.; et al., 89b:20008**
Saxl, Jan *see* **Liebeck, Martin W.; et al., 89b:20008**

20D08 Simple groups: sporadic groups

Dalla Volta, Francesca Sporadic groups generated by three involutions. (Italian. English summary) **89f:20023**
Diawara, O. Sur les classes de conjugaison des sous-groupes du groupe simple sporadique Mc de J. McLaughlin. I. [On the classes of conjugate elements of the subgroups of J. McLaughlin's sporadic simple group Mc. I] **89j:20023a**
— Sur les classes de conjugaison des sous-groupes du groupe simple sporadique Mc de J. McLaughlin. II. [On the classes of conjugate elements of the subgroups of J. McLaughlin's sporadic simple group Mc. II] **89j:20023b**
Đoković, Dragomir Ž. Presentations of some finite simple groups. **89k:20023**
(Frenkel, Igor B.) *see* **Tits, J., 89i:20030**
Gonçalves, Adilson A characterization of J_1 by a piece of its character table. **89d:20015**
Ho, Chat Yin A new 7-local subgroup of the Monster. **89h:20026**
Ivanov, Aleksandr Anatol'evich (*with* Shpektorov, S. V.) Geometries for sporadic groups related to the Petersen graph. I. **89c:20031**
Kleidman, Peter B. The maximal subgroups of the Steinberg triality groups ${}^3D_4(q)$ and of their automorphism groups. **89f:20024**
— (*with* Wilson, Robert A.) The maximal subgroups of J_4. **89b:20044**
(Lepowsky, J.) *see* **Tits, J., 89i:20030**
Mazurov, Viktor Danilovich (*with* Mazurova, N. P.) Broad subgroups of sporadic groups. I. (Russian) **89e:20035**
Mazurova, N. P. *see* **Mazurov, Viktor Danilovich, 89e:20035**
(Meurman, A.) *see* **Tits, J., 89i:20030**
Norton, S. P. On the group Fi_{24}. **89k:20024**
Ryba, A. J. E. A new construction of the O'Nan simple group. **89b:20045**
Shi, Wu Jie A new characterization of the sporadic simple groups. **89k:20025**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich, 89c:20031**
Soicher, Leonard H. Presentations for Conway's group Co_1. **89b:20046**
Stroth, G. (*with* Weiss, Richard Mark) Modified Steinberg relations for the group J_4. **89c:20032**
Suzuki, Michio Elementary proof of the simplicity of sporadic groups. **89k:20026**
Tits, J. Théorie des groupes. [Group theory] **89h:20027**
— Le module du "moonshine" [d'après I. Frenkel, J. Lepowsky et A. Meurman]. [The "moonshine" module [after I. Frenkel, J. Lepowsky and A. Meurman]] **89i:20030**
Virotte-Ducharme, Marguerite-Marie Une construction du groupe de Fischer Fi(24). (English summary) [A construction of the Fischer group Fi(24)] **89a:20013**
Weiss, Richard Mark *see* **Stroth, G., 89c:20032**
Wilson, Robert A. On the 3-local subgroups of Conway's group Co_1. **89c:20033**
— *see also* **Kleidman, Peter B., 89b:20044**

Items with secondary classifications in 20D08

Kondo, Takeshi (*with* Tasaka, Takashi) The theta functions of sublattices of the Leech lattice. II. **89h:11030**
Lindsey, J. H., II A new lattice for the Hall-Janko group. **89g:20075**
Pahlings, H. Some sporadic groups as Galois groups. **89i:12004**
Qiu, Wei Sheng An equivalent representation of the Mathieu group M_{11} and its equicentralizer subgroups. **89k:05017**
Ryba, A. J. E. Calculation of the 7-modular characters of the Held group. **89g:20026**
Shpektorov, S. V. Geometric characterization of the group M_{22}. (Russian) **89m:51012**
Tasaka, Takashi *see* **Kondo, Takeshi, 89h:11030**
Trojan, Allan Geometry in Janko's first group. **89m:20005**
Yoshiara, Satoshi A lattice theoretical construction of a GAB of the Suzuki sporadic simple group. **89a:51030**

20D10 Solvable groups, theory of formations, π-length, ranks, factorable groups, p-groups [see also 20F17]

Asaad, Mohamed On the solvability and supersolvability of finite groups. (Arabic summary) **89d:20016**
— On the solvability of finite groups. **89i:20031**
Barlotti, Marco On a construction for Fitting formations. (Italian summary) **89e:20036**
Baryshovets, P. P. Finite A-groups in which all nonmetacyclic subgroups are complemented. **89j:20024**
Bechtell, H. Locally complemented formations. **89d:20017**
Brandis, Albrecht Moduln und verschränkte Homomorphismen endlicher Gruppen. [Modules and crossed homomorphisms of finite groups] **89b:20047**
Bryce, R. A. (*with* Cossey, John; Ormerod, E. A.) Fitting classes after Dark. **89m:20017**
Cossey, John *see* **Bryce, R. A.; et al., 89m:20017**
Fan, Yun The centrality, normality and cohomology associated with a formation. **89h:20028**
— On groups of odd order and p-rank ≤ 2. **89k:20027**
Fedri, V. (*with* Serena, L.) Finite soluble groups with supersoluble Sylow normalizers. **89c:20034**
Ferguson, Pamela A. *see* **Olazábal, J. M., 89f:20026**
Förster, Peter Projektive Klassen endlicher Gruppen. IIb. Gesättigte Formationen: Projektoren. [Projective classes of finite groups. IIb. Saturated formations: projectors] **89c:20035**
Gol'ko, V. I. On a property of $\mathfrak{F}$-pre-Frattini subgroups of finite groups. (Russian) **89c:20036**
— $\mathscr{F}$-pre-Frattini subgroups of finite groups. (Russian) **89a:20014**

— Characterization of $\mathscr{F}$-pre-Frattini subgroups of finite groups by the property of covering-avoidance of the chief factors of the group. (Russian) **89f:20025**
Guo, Wen Bin The π-normality and π-length of π-solvable groups. (Chinese) **89g:20035**
Hauck, Peter (*with* Kienzle, Reinhold) Modular Fitting functors in finite groups. **89a:20015**
Herzfeld, Ute Christina Frattini classes of formations of finite groups. (Italian summary) **89k:20028**
— Frattini classes and maximal subclasses, in particular of saturated formations of finite groups. **89g:20036**
Iranzo, M. J. (*with* Pérez Monasor, F.) Existence of injectors in finite groups with respect to some Fitting classes. (Spanish) **89e:20037**
Kamornikov, S. F. Pronormal projectors of finite ω-solvable groups. (Russian) **89d:20018**
Karmazin, A. P. (*with* Shemetkov, L. A.) On complementability of coradicals in extensions of finite groups. (Russian) **89k:20029**
Kharlamova, V. I. Finite groups with $\mathfrak{F}$-subnormal subgroups. (Russian) **89k:20030**
Kienzle, Reinhold *see* **Hauck, Peter, 89a:20015**
Kreknin, V. A. (*with* Spivakovskiĭ, A. V.) A class of groups having C-separable subgroups. (Russian) **89a:20016**
Kuzennyĭ, N. F. *see* **Subbotin, I. Ya., 89i:20032**
Lin, Wan The weak normalities in finite supersolvable groups. (Italian summary) **89g:20037**
McCann, Brendan Examples of minimal Fitting classes of finite groups. **89e:20038**
Monakhov, V. S. Classes of finite groups with bijectors of equal order. (Russian) **89k:20031**
Müller, Klaus Fittingklassen mit zusätzlichen Abschlußeigenschaften. [Fitting classes with additional closure properties] **89b:20048**
Olazábal, J. M. (*with* Ferguson, Pamela A.) On F'-closure of $\tilde{F}$-homogeneous groups. **89f:20026**
Ormerod, E. A. *see* **Bryce, R. A.; et al., 89m:20017**
Pérez Monasor, F. *see* **Iranzo, M. J., 89e:20037**
Romanenko, N. D. Characterization of finite π-solvable groups of π-length 1. (Russian) **89a:20017**
Scoppola, Carlo M. Abelian generalized Frobenius complements for p-groups and the Hughes problem. **89c:20037**
Semenchuk, V. N. Solvable minimal non-$\mathfrak{F}$-groups. (Russian) **89k:20032**
— Description of finite solvable minimal non-$\mathfrak{F}$-groups for an arbitrary totally local formation $\mathfrak{F}$. **89f:20027**
Serena, L. *see* **Fedri, V., 89c:20034**
Shemetkov, L. A. Compositional formations and radicals of finite groups. **89f:20028**
— *see also* **Karmazin, A. P., 89k:20029**
Shi, Wu Jie (*with* Yang, Wen Ze) Solvable CN-groups and π-separable $C\pi\pi$-groups. **89f:20029**
Spivakovskiĭ, A. V. *see* **Kreknin, V. A., 89a:20016**
Su, Xiang Ying Seminormal subgroups of finite groups. (Chinese. English summary) **89j:20025**
Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Solvable groups with a quasicentralizer condition for nonabelian normal subgroups. (Russian) **89i:20032**
Valero Oltra, Manuel Ovidio The class $P^*\mathscr{Z}$ and strong $\mathscr{A}/\mathscr{B}$-subgroups. (Spanish. English summary) **89m:20018**
Vasil′ev, A. F. On the problem of the enumeration of local formations with a given property. (Russian) **89j:20026**
Vedernikov, V. A. Some classes of finite groups. (Russian. English summary) **89k:20033**
Vorob′ev, N. T. Radical classes of finite groups with the Lockett condition. **89h:20029**
Wang, Ru Ji Wielandt's problem of decomposing a group into F-subgroups. (Chinese. English summary) **89k:20034**
Yang, Wen Ze *see* **Shi, Wu Jie, 89f:20029**
Yuster, Thomas Bounds for counterexamples to addition theorems in solvable groups. **89k:20035**
Zappa, Guido Normal Fitting classes of groups and generalizations. **89k:20036**
Zhang, Ji Ping (*with* Zhang, Lai Wu) The supersolvability of a class of finite groups. (Chinese) **89d:20019**
— S-quasinormality and supersolvability. (Chinese. English summary) **89e:20039**
Zhang, Lai Wu *see* **Zhang, Ji Ping, 89d:20019**

Items with secondary classifications in 20D10

Bhattacharya, Prabir *see* **Mukherjee, N. P., 89i:20052**
Brandl, Rolf (*with* Wilson, John S.) Characterization of finite soluble groups by laws in a small number of variables. **89g:20056**
Casolo, Carlo Direct products and defects of subnormal subgroups. **89e:20043**
Deaconescu, Marian Finite groups having an automorphism with many fixed points. (*see* 89a:00015)
Espuelas, Alberto A noncoprime Shult type theorem. **89e:20015**
Förster, Peter Chief factors, crowns, and the generalised Jordan-Hölder theorem. **89i:20039**
Heineken, Hermann A remark on subgroup lattices of finite soluble groups. **89g:20041**
— (*with* Soules, Panagiotis) Subnormal embedding of relatively complete groups. **89j:20028**
Isaacs, I. M. Characters and Hall subgroups of solvable groups. **89d:20008**
— Characters of solvable groups. **89f:20009**
Leone, A. Minimal non-KC finite p-groups. (Italian) **89b:20050**
Mukherjee, N. P. (*with* Bhattacharya, Prabir) The normal index of a maximal subgroup of a finite group. **89i:20052**
Plesken, W. Towards a soluble quotient algorithm. **89d:20027**
Schmidt, Roland Untergruppenverbände endlicher auflösbarer Gruppen. [Subgroup lattices of finite solvable groups] **89a:20020**
Seager, Suzanne M. A bound on the rank of primitive solvable permutation groups. **89j:20004**
Sin, Peter (*with* Willems, Wolfgang) On induced projective indecomposable modules. **89h:20019**
Soules, Panagiotis *see* **Heineken, Hermann, 89j:20028**
Sun, Zong Ming The nth power group of a group. (Chinese) **89d:20026**
Willems, Wolfgang *see* **Sin, Peter, 89h:20019**
Wilson, John S. *see* **Brandl, Rolf, 89g:20056**

20D15 Nilpotent groups, p-groups

Adnan, Saad Über eine Bemerkung von Glauberman. [On a comment of Glauberman] **89a:20018**
Adyan, S. I. (*with* Razborov, A. A.) Periodic groups and Lie algebras. (Russian) **89i:20033**
Asaad, Mohamed On abelian subgroups of finite p-groups. (Arabic summary) **89e:20040**
Donkin, Stephen Space groups and groups of prime-power order. VIII. Pro-p-groups of finite coclass and p-adic Lie algebras. **89g:20038**
Fan, Yun A characterization of elementary abelian p-groups by counting subgroups. (Chinese) **89h:20030**
Guo, Xiu Yun Normal p-complements and a characteristic of nilpotent groups. (Chinese. English summary) **89i:20034**
Heineken, Hermann Soluble irreducible groups of automorphisms of certain groups of class two. **89b:20049**
Khukhro, E. I. Finite p-groups which are near to groups of prime period. (Russian) **89a:20019**
Kiming, Ian Structure and derived length of finite p-groups possessing an automorphism of p-power order having exactly p fixpoints. **89i:20035**
Lam, T. Y. On the number of solutions of $x^{p^k}=a$ in a p-group. **89h:20031**
Leone, A. Minimal non-KC finite p-groups. (Italian) **89b:20050**
Mann, Avinoam Groups with small abelian subgroups. **89b:20051**
Pazderski, G. The cyclic length of a p-group need not be logarithmic. **89h:20032**
Razborov, A. A. *see* **Adyan, S. I., 89i:20033**
Shokuev, V. N. Computation of inversions on the lattice of subgroups of a finite p-group. (Russian) **89m:20019**
Verardi, Libero Semi-extraspecial groups of exponent p. (Italian. English summary) **89h:20033**
— On groups whose noncentral elements have the same finite number of conjugates. (Italian summary) **89k:20037**
Wilkinson, David Fredric The groups of exponent p and order p^7 (p any prime). **89h:20034**

Items with secondary classifications in 20D15

Kovács, L. G. (*with* Newman, M. F.) Generating transitive permutation groups. **89i:20008**
Lyons, Carter G. (*with* Peterson, Gary Lee) Local endomorphism near-rings. **89m:16077**
Newman, M. F. *see* **Kovács, L. G., 89i:20008**
O'Brien, E. A. A computer based description of 2-groups. **89b:20005**
Pérez-Ramos, M. D. Groups with two normalizers. **89g:20043**
Peterson, Gary Lee Automorphism groups emitting local endomorphism near-rings. **89k:20051**
— *see also* **Lyons, Carter G., 89m:16077**
Shi, Wu Jie (*with* Yang, Wen Ze) Solvable CN-groups and π-separable $C\pi\pi$-groups. **89f:20029**
Sysak, Ya. P. Finite ABA-groups with abelian p-subgroups A and B. **89j:20029**
Webb, P. J. Subgroup complexes. **89f:20057**
Yang, Wen Ze *see* **Shi, Wu Jie, 89f:20029**

20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

Deaconescu, Marian Classification of finite groups with all elements of prime order. **89k:20038**
Evans, Martin J. (*with* Shin, Hyunyong) Local conjugacy in finite groups. **89b:20052**
Fan, Yun *see* **Li, Chang Chun,** (Not in MR)
Ferguson, Pamela A. (*with* Kelley, Patricia) Hall π-subgroups which are direct products of nonabelian simple groups. **89k:20039**
Gross, Fletcher Conjugacy of Hall subgroups. (Italian summary) **89g:20039**
— Conjugacy of odd order Hall subgroups. **89c:20038**
Hernández Advíncula, F. *see* **Subit Gómez, R.; et al., 89i:20038**
Huang, Qiang Recognition of normal Sylow p-subgroups. (Chinese) **89e:20041**
Kelley, Patricia *see* **Ferguson, Pamela A., 89k:20039**
Kosman, E. G. Geometric characterization of the Sylow p-subgroups of the restricted linear group. **89k:20040**
Lazo Cortés, Manuel (*with* Morgado Morales, Èberto R.) The Sylow p-groups of the automorphism group of a finite homocyclic p-group of rank 2. (Spanish. English summary) **89g:20040**
Li, Chang Chun (*with* Fan, Yun) On the orders of p-closed groups. (Chinese. English summary) (Not in MR)
Meierfrankenfeld, Ulrich Pushing up Sp$(4, 2^k)$. (German) **89i:20036a**
— Pushing up Sp$(4, q)$, q odd. **89i:20036b**
Monakhov, V. S. Normal subgroups of finite π-separable groups. (Russian. English summary) **89i:20037**
Morgado Morales, Èberto R. *see* **Lazo Cortés, Manuel, 89g:20040** *and* **Subit Gómez, R.; et al., 89i:20038**
Petravchuk, A. P. Finite groups in which the super-Sylow subgroups are complemented. (Russian) **89e:20042**
Shin, Hyunyong *see* **Evans, Martin J., 89b:20052**
Solomon, Ronald A characterization of PSU(3, 4). **89f:20030**
Subit Gómez, R. (*with* Morgado Morales, Èberto R.; Hernández Advíncula, F.) The minimum number of generators for the Sylow subgroup of the automorphism group of an abelian p-group of type $[p^{m_1}, p^{m_2}, \cdots, p^{m_r}]$, with $m_i > m_{i+1}+1$. (Spanish. English summary) **89i:20038**
Zhang, Ji Ping On p-solvability of finite groups having T. I. Sylow p-subgroups. (Chinese) (Not in MR)

Items with secondary classifications in 20D20

Adnan, Saad Über eine Bemerkung von Glauberman. [On a comment of Glauberman] **89a:20018**
Baryshovets, P. P. Finite A-groups in which all nonmetacyclic subgroups are complemented. **89j:20024**
Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, Aviezri S.) Remark on the multiplicity of a partition of a group into cosets. **89e:20047**
Bhattacharya, Prabir *see* **Mukherjee, N. P., 89b:20053**

Brown, Kenneth S. (*with* Thévenaz, Jacques) A generalization of Sylow's third theorem. **89e:20048**
Espuelas, Alberto A noncoprime Shult type theorem. **89e:20015**
Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 89e:20047**
Ferguson, Pamela A. Character restriction and relative normal complements. **89k:20011**
Fraenkel, Aviezri S. *see* **Berger, Marc A.; et al., 89e:20047**
Guo, Wen Bin The π-normality and π-length of π-solvable groups. (Chinese) **89g:20035**
Guo, Xiu Yun Normal p-complements and a characteristic of nilpotent groups. (Chinese. English summary) **89i:20034**
Hernández Advíncula, F. *see* **Subit Gómez, R.; et al., 89e:20045**
Kantor, W. M. (*with* Taylor, D. E.) Polynomial-time versions of Sylow's theorem. **89h:20004**
Leonard, Henry S. On the Brauer-Suzuki theorem. **89c:20020**
Morgado Morales, Èberto R. *see* **Subit Gómez, R.; et al., 89e:20045**
Mukherjee, N. P. (*with* Bhattacharya, Prabir) On the intersection of a family of maximal subgroups containing the Sylow subgroups of a finite group. **89b:20053**
Oates-Williams, Sheila Ramsey varieties of finite groups. **89f:20037**
Shi, Wu Jie (*with* Yang, Wen Ze) Solvable CN-groups and π-separable $C\pi\pi$-groups. **89f:20029**
Subit Gómez, R. (*with* Morgado Morales, Èberto R.; Hernández Advíncula, F.) Minimum number of generators of a Sylow subgroup of the automorphism group of an abelian p-group of type $[p^{m_1}, p^{m_2}, \cdots, p^{m_r}]$ with $m_i = m_{i+1} + 1$. (Spanish. English summary) **89e:20045**
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Items with secondary classifications in 20D25

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Goĭko, V. I. $\mathscr{F}$-pre-Frattini subgroups of finite groups. (Russian) **89a:20014**
Hernández Advíncula, F. *see* **Subit Gómez, R.; et al., 89i:20038**
Morgado Morales, Èberto R. *see* **Subit Gómez, R.; et al., 89i:20038**
Subit Gómez, R. (*with* Morgado Morales, Èberto R.; Hernández Advíncula, F.) The minimum number of generators for the Sylow subgroup of the automorphism group of an abelian p-group of type $[p^{m_1}, p^{m_2}, \cdots, p^{m_r}]$, with $m_i > m_{i+1} + 1$. (Spanish. English summary) **89i:20038**

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Heineken, Hermann A remark on subgroup lattices of finite soluble groups. **89g:20041**
Schmidt, Roland Untergruppenverbände endlicher auflösbarer Gruppen. [Subgroup lattices of finite solvable groups] **89a:20020**
Thévenaz, Jacques Isomorphic Burnside rings. **89g:20042**

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Brown, Kenneth S. (*with* Thévenaz, Jacques) A generalization of Sylow's third theorem. **89e:20048**
Espuelas, Alberto A noncoprime Shult type theorem. **89e:20015**
Kharlamova, V. I. Finite groups with $\mathfrak{F}$-subnormal subgroups. (Russian) **89k:20030**
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Thévenaz, Jacques *see* **Brown, Kenneth S., 89e:20048**
Vojvodić, G. (*with* Šešelja, B.) A note on the modularity of the lattice of weak congruences on a finite group. (*see* **89b:00022**)
Webb, P. J. Subgroup complexes. **89f:20057**
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Spivakovskiĭ, A. V. Finite 2-groups that are close to Hamiltonian groups. (Russian) **89e:20044**
Sysak, Ya. P. Finite ABA-groups with abelian p-subgroups A and B. **89j:20029**

Items with secondary classifications in 20D40

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— (*with* Guo, Wen Bin) Finite abelian groups with automorphism groups of order 6 or 8. (Chinese. English summary) **89j:20030**
Morgado Morales, Èberto R. *see* **Subit Gómez, R.; et al., 89e:20045**
Praeger, Cheryl E. Covering subgroups of groups and Kronecker classes of fields. **89i:20040**
Subit Gómez, R. (*with* Morgado Morales, Èberto R.; Hernández Advíncula, F.) Minimum number of generators of a Sylow subgroup of the automorphism group of an abelian p-group of type $[p^{m_1}, p^{m_2}, \cdots, p^{m_r}]$ with $m_i = m_{i+1} + 1$. (Spanish. English summary) **89e:20045**
Zhai, Qi Bin A class of complete solvable groups of finite order. (Chinese. English summary) **89d:20020**

Items with secondary classifications in 20D45

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Kiming, Ian Structure and derived length of finite p-groups possessing an automorphism of p-power order having exactly p fixpoints. **89i:20035**
Lazo Cortés, Manuel (*with* Morgado Morales, Èberto R.) The Sylow p-groups of the automorphism group of a finite homocyclic p-group of rank 2. (Spanish. English summary) **89g:20040**
Linnell, P. A. (*with* Stammbach, U.) On the cohomology of p-constrained groups. **89f:20055**
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20D50 Covering of subgroups

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20D60 Arithmetic and combinatorial problems

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Bailey, R. A. (*with* Praeger, Cheryl E.) Directed terraces for direct product groups. **89i:20041**
Barnes, F. W. Some games of F. Harary, based on finite groups. **89i:20042**
Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, Aviezri S.) Remark on the multiplicity of a partition of a group into cosets. **89e:20047**
Brown, Kenneth S. (*with* Thévenaz, Jacques) A generalization of Sylow's third theorem. **89e:20048**
Brown, Ron Minimal covers of S_n by abelian subgroups and maximal subsets of pairwise noncommuting elements. **89i:20043**
Chandler, K. A. Groups formed by redefining multiplication. **89m:20021**
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Jie, Fang Zhuo A result on the order of the product of two elements of finite order in a group. (Chinese. English summary) (Not in MR)
Olson, John E. A problem of Erdős on abelian groups. **89f:20034**
Ortiz de Elguea, Lourdes *see* **Vera López, Antonio, 89b:20056** *and* (**89d:00009**)
Piochi, B. (*with* Pirillo, Giuseppe) Sur une propriété de permutabilité des groupes finis. (English summary) [A permutation property for finite groups] **89g:20044**
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Ren, Yong Cai Bounded solutions of relatively prime automorphisms of admissible prime orders. (Chinese) (Not in MR)
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Vera López, Antonio Finite groups with a small number of conjugacy classes outside of the socle. (Spanish. English summary) **89a:20023**

— (*with* Ortiz de Elguea, Lourdes) On the number of conjugacy classes of a finite group modulo the greatest possible number. (Spanish) (*see* **89d:00009**)
— (*with* Ortiz de Elguea, Lourdes) On the number of conjugacy classes in a finite group. **89b:20056**
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Items with secondary classifications in 20D60

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Corrádi, Keresztély (*with* Szabó, Sándor) Some special cases of Keller's conjecture. **89b:20113**
Erdős, Paul (*with* Pálfy, Péter Pál) On the order of directly indecomposable groups. (Hungarian. English and Russian summaries) **89j:11093**
— (*with* Mays, Michael E.) On nilpotent but not abelian groups and abelian but not cyclic groups. **89d:11080**
Fan, Yun A characterization of elementary abelian p-groups by counting subgroups. (Chinese) **89h:20030**
Lander, Eric S. Restrictions upon multipliers of an abelian difference set. **89e:05043**
Liu, Hong Quan An asymptotic formula for $F_{2^a}(x)$. (Chinese) **89f:11132**
Mays, Michael E. *see* **Erdős, Paul, 89d:11080**
McIver, Annabelle (*with* Neumann, Peter M.) Enumerating finite groups. **89a:11097**
Miller, William Von The maximum order of an element of a finite symmetric group. **89k:20005**
Narlikar, M. J. (*with* Srinivasan, Seshadri) On orders solely of abelian groups. II. **89d:11079**
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Oates-Williams, Sheila Ramsey varieties of finite groups. **89f:20037**
Pálfy, Péter Pál *see* **Erdős, Paul, 89j:11093**
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20D99 None of the above, but in this section

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Asaad, Mohamed Simple groups all of whose second maximal subgroups are (A)-groups. **89b:20058**
Higgs, R. J. Trivial action on the tensor product of finite groups. **89h:20036**
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Vera López, Antonio Two properties concerning the problem of the classification of finite groups by the number of conjugacy classes and the number of minimal normal subgroups. (Spanish. English summary) **89e:20049**
— (*with* Vera López, Juan) About the finite groups whose minimal normal subgroups are union of two conjugacy classes exactly. **89c:20040**
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Zara, François A first step toward the classification of Fischer groups. **89b:20059**

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Smith, Ken W. The representation theory of tactical configurations. **89i:05074**
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Walls, Gary Maximal subgroups with trivial intersections. (Not in MR)

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

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Dold, Albrecht Nullhomologous words in free groups which are not nullhomologous in any proper subgroup. **89f:20035**
Gersten, S. M. (*with* Stallings, John R.) On Gauss's first proof of the fundamental theorem of algebra. **89e:20051**
Hurley, T. C. Identifications in a free group. **89a:20025**
Khramtsov, D. G. Finite subgroups of groups of outer automorphisms of free groups. (Russian) **89j:20031**
Malkhasyan, A. Sh. Equations in a free group with coefficients depending on parameters. (Russian) **89a:20026**
Nekritsukhin, A. I. One example of the approximability of a free group. (Russian) (*see* **89g:00008**)
Stallings, John R. *see* **Gersten, S. M., 89e:20051**
Tenekedzhi, V. V. Matrix representations of degree 6 of automorphism groups of free groups. (Russian) **89i:20044**
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Gawron, Piotr Włodzimierz (*with* Macedońska, Olga) All automorphisms of the 3-nilpotent free group of countably infinite rank can be lifted. **89h:20042**
Hofmann, Karl Heinrich (*with* Morris, Sidney A.) Free compact groups. II. The center. **89g:22005**
Lisan, Amha Tume Free groups in βN which miss the minimal ideal. **89e:22003**
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McCool, James The automorphism groups of finite extensions of free groups. **89c:20056**
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Remus, Dieter On the number of Hausdorff group topologies on infinite abelian and free groups. **89c:22003**
Skopin, A. I. Realization of computer calculations in transmetabelian groups. **89g:20057**
Terman, David Traveling wave solutions of a gradient system: solutions with a prescribed winding number. I, II. **89h:35162**
Wong, P. C. A note on the residual finiteness of finitely generated free-by-cyclic groups. **89i:20051**
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20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Andreadakis, S. (*with* Raptis, E.; Varsos, D.) A characterization of residually finite HNN-extensions of finitely generated abelian groups. **89g:20046**
Bogopol′skiĭ, O. V. Arborial decomposability of groups of automorphisms of free groups. (Russian) **89i:20045**
Cassidy, Charles Embedding of U_ω-groups in D_ω-groups. **89c:20041**
Chehata, C. G. (*with* Nashed, L.; Sherif, H. H.) Extensions of operator groups. **89b:20060**
Collins, Donald J. (*with* Turner, Edward C.) Free product fixed points. **89h:20037**
— (*with* Zieschang, Heiner) On the Nielsen method in free products with amalgamated subgroups. **89b:20061**
Fine, Benjamin *see* **Frohman, Charles, 89a:20027**
Frohman, Charles (*with* Fine, Benjamin) Some amalgam structures for Bianchi groups. **89a:20027**
Herrlich, F. Graphs of groups with isomorphic fundamental group. **89j:20032**
Kassimatis, Nick Bass and Serre theory and Nielsen transformations (free and free product case). **89e:20052**
Maier, Berthold J. Two remarks on amalgams of locally finite groups. **89b:20062**
Mihalik, Michael L. Semistability at ∞, ∞-ended groups and group cohomology. **89b:20063**
Nashed, L. *see* **Chehata, C. G.; et al., 89b:20060**
Raptis, E. (*with* Varsos, D.) Some residual properties of certain HNN extensions. **89c:20042**
— *see also* **Andreadakis, S.; et al., 89g:20046**
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Shirvani, M. On residually finite graph products. **89a:20028**
— A converse to a residual finiteness theorem of G. Baumslag. **89g:20047**
Turner, Edward C. *see* **Collins, Donald J., 89h:20037**
Varsos, D. The automorphism group of certain HNN extensions. **89e:20053**
— *see also* **Raptis, E., 89c:20042** *and* **Andreadakis, S.; et al., 89g:20046**
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Aomoto, Kazuhiko (*with* Kato, Yoshifumi) Green functions and spectra on free products of cyclic groups. (French summary) **89m:58201**
Baumslag, Gilbert (*with* Miller, Charles F., III) Some odd finitely presented groups. **89e:20059**
Bezverkhniĭ, V. N. Solution of the occurrence problem in some classes of groups with one defining relation. (Russian) **89e:20065**
Brown, Kenneth S. Trees, valuations, and the Bieri-Neumann-Strebel invariant. **89e:20060**
Denk, Gert (*with* Metzler, Wolfgang[1]) Nielsen reduction in free groups with operators. **89k:20048**
Ershov, Yu. L. Invariant generability. **89m:20026**
Fine, Benjamin (*with* Levin, Frank; Rosenberger, Gerhard) Free subgroups and decompositions of one-relator products of cyclics. II. Normal torsion-free subgroups and FPA decompositions. **89h:20044**
— (*with* Rosenberger, Gerhard) Complex representations and one-relator products of cyclics. **89g:20054**
— (*with* Howie, James; Rosenberger, Gerhard) One-relator quotients and free products of cyclics. **89a:20035**
Glass, A. M. W. Free products of lattice-ordered groups. **89b:06010**
Howie, James *see* **Fine, Benjamin; et al., 89a:20035**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko, 89m:58201**
Kushner, Harvey (*with* Lipschutz, Seymour) A generalization of Stallings' pregroup. **89m:20035**
Levin, Frank *see* **Fine, Benjamin; et al., 89h:20044**
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Livingston, Charles Indecomposable surfaces in 4-space. **89g:57030**
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— Pushing up $\mathrm{Sp}(4,q)$, q odd. **89i:20036b**
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Miller, Charles F., III *see* **Baumslag, Gilbert, 89e:20059**
Moldavanskiĭ, D. I. (*with* Timofeeva, L. V.) Finitely generated subgroups of a group which is defined by one relation and has a nontrivial center that are finitely separable. (Russian) **89b:20073**
Morris, Sidney A. (*with* Thompson, H. B.) Sequential conditions and free products of topological groups. **89h:22002**
Myasnikov, A. G. *see* **Remeslennikov, V. N., 89d:03033**
Remeslennikov, V. N. (*with* Myasnikov, A. G.) ★ Элементарная эквивалентность свободных произведений групп. (Russian) [Elementary equivalence of the free products of groups] **89d:03033**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 89a:20035; 89g:20054** *and* **89h:20044**

Shalen, Peter B. Dendrology of groups: an introduction. **89d:57012**
Thompson, H. B. *see* **Morris, Sidney A., 89h:22002**
Timofeeva, L. V. *see* **Moldavanskiĭ, D. I., 89b:20073**
Tschantz, Steven T. A finitely presented HNN-extension example: non-finitely generated groups, and an application of small cancellation theory. **89h:20046**
Yoshikawa, Katsuyuki A ribbon knot group which has no free base. **89c:57025**

20E07 Subgroup theorems

Kraĭchuk, A. V. A class of groups with normal subgroups of infinite index. **89i:20046**
Otal, Javier (*with* Peña, Juan Manuel) Groups in which every proper subgroup is Černikov-by-nilpotent or nilpotent-by-Černikov. **89j:20033**
Peña, Juan Manuel *see* **Otal, Javier, 89j:20033**
Yu, Xian Jun A note on a theorem of Szász. (Chinese) **89h:20038**

Items with secondary classifications in 20E07

Asaad, Mohamed On abelian subgroups of finite p-groups. (Arabic summary) **89e:20040**
Fine, Benjamin (*with* Levin, Frank; Rosenberger, Gerhard) Free subgroups and decompositions of one-relator products of cyclics. I. The Tits alternative. **89c:20050**
Levin, Frank *see* **Fine, Benjamin; et al., 89c:20050**
Moldavanskiĭ, D. I. (*with* Timofeeva, L. V.) Finitely generated subgroups of a group which is defined by one relation and has a nontrivial center that are finitely separable. (Russian) **89b:20073**
Praeger, Cheryl E. Covering subgroups of groups and Kronecker classes of fields. **89i:20040**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 89c:20050**
Shelah, Saharon Uncountable groups have many nonconjugate subgroups. **89d:20001**
Timofeeva, L. V. *see* **Moldavanskiĭ, D. I., 89b:20073**

20E10 Quasivarieties and varieties of groups

Budkin, A. I. Filters in the lattice of quasivarieties of groups. **89k:20041**
Kuz'min, Yu. V. (*with* Shapiro, M. Z.) The connection between varieties of groups and varieties of Lie rings. (Russian) **89g:20048**
Ladra González, Manuel (*with* R-Grandjeán L-Valcárcel, A.) An eight term exact sequence relative to a variety. **89a:20029**
Oates-Williams, Sheila Ramsey varieties of finite groups. **89f:20037**
Pope, Alun Lloyd Almost-free groups in varieties with torsion. **89b:20064**
R-Grandjeán L-Valcárcel, A. *see* **Ladra González, Manuel, 89a:20029**
Shapiro, M. Z. *see* **Kuz'min, Yu. V., 89g:20048**
Vovsi, S. M. Homogeneous varieties of representations of groups. **89m:20023**

Items with secondary classifications in 20E10

Baumslag, Gilbert (*with* Stammbach, U.; Strebel, Ralph) The free metabelian group of rank two contains continuously many nonisomorphic subgroups. **89e:20066**
Brandl, Rolf Infinite soluble groups with the Bell property: a finiteness condition. **89a:20044**
Kharlampovich, O. G. The word problem for subvarieties of the variety $\mathfrak{N}_2\mathfrak{A}$. (Russian) **89m:20036**
Stammbach, U. *see* **Baumslag, Gilbert; et al., 89e:20066**
Strebel, Ralph *see* **Baumslag, Gilbert; et al., 89e:20066**
Tasić, Vladimir On single-law definitions of groups. **89a:08004**
Van'kov, B. P. Identities in Greendlinger subgroups. (Russian) **89h:20047**

20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Borevich, Z. I. (*with* Lezama Serrano, J. O.) The multiplicative group of a semiperfect ring. (Ukrainian. Russian summary) **89c:20043**
Brandl, Rolf The Dilworth number of subgroup lattices. **89e:20054**
Kuzennyĭ, N. F. (*with* Levishchenko, S. S.; Semko, N. N.) Groups with normal infinite nonabelian subgroups. **89g:20049**
Levishchenko, S. S. *see* **Kuzennyĭ, N. F.; et al., 89g:20049**
Lezama Serrano, J. O. *see* **Borevich, Z. I., 89c:20043**
Longobardi, Patrizia (*with* Maj, Mercede) v-complete epimorphisms between lattices of normal subgroups. (Italian) **89m:20024**
Lukács, Erzsébet Modularity of some three-generator sublattices in subgroup lattices. **89a:20030**
Maj, Mercede *see* **Longobardi, Patrizia, 89m:20024**
Petrov, E. E. Harmonics on a finite projective space. **89k:20042**
Piontkovskaya, N. A. Examples of nilpotent groups that are not strongly defined by the lattice of their subgroups. (Russian) **89i:20047**
Rhemtulla, A. H. (*with* Wilson, John S.) Elliptically embedded subgroups of polycyclic groups. **89b:20065**
Schenke, Michael Analoga des Fundamentalsatzes der projektiven Geometrie in der Gruppentheorie. II. [Analogues of the fundamental theorem of projective geometry in group theory. II] **89e:20055**
Semko, N. N. *see* **Kuzennyĭ, N. F.; et al., 89g:20049**
Stonehewer, S. E. (*with* Zacher, G.) On groups with an interval isomorphic to a projective geometry. **89i:20048**
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Yakovlev, B. V. Lattice definability of matrix and certain other groups. (Russian) **89k:20043**
Zacher, G. *see* **Stonehewer, S. E., 89i:20048**

Items with secondary classifications in 20E15

Chernikov, N. S. ★ Группы, разложимые в произведение перестановочных подгрупп. (Russian) [Groups that decompose into a product of permutable subgroups] **89b:20075**
Diawara, O. Sur les classes de conjugaison des sous-groupes du groupe simple sporadique Mc de J. McLaughlin. I. [On the classes of conjugate elements of the subgroups of J. McLaughlin's sporadic simple group Mc. I] **89j:20023a**
— Sur les classes de conjugaison des sous-groupes du groupe simple sporadique Mc de J. McLaughlin. II. [On the classes of conjugate elements of the subgroups of J. McLaughlin's sporadic simple group Mc. II] **89j:20023b**
Krasner, Marc (*with* Vuković, Mirjana) ★ Structures paragraduées (groupes, anneaux, modules). (French) [Paragraded structures (groups, rings, modules)] **89c:13001**
Kuzennyĭ, N. F. (*with* Subbotin, I. Ya.) New characterizations of locally nilpotent $\overline{\text{IH}}$-groups. **89h:20050**
Lennox, John (*with* Stonehewer, S. E.) ★ Subnormal subgroups of groups. **89b:20002**
Liman, F. N. Nonperiodic groups all of whose decomposable pd-subgroups are normal. **89g:20064**
Makar-Limanov, L. On subnormal subgroups of skew fields. **89d:16024**
Mason, A. W. Standard subgroups of $\text{GL}_2(A)$. **89b:20101**
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Wang, Lu Qun *see* **Zhang, Yong Zheng, 89c:20071**
Wong, P. C. A note on the residual finiteness of finitely generated free-by-cyclic groups. **89i:20051**
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20E18 Limits, profinite groups

Dress, Andreas (*with* Siebeneicher, Christian) The Burnside ring of profinite groups and the Witt vector construction. **89m:20025**
Ershov, Yu. L. Invariant generability. **89m:20026**
Īvanyuta, Ī. D. Sylow p-subgroups of the group $\text{U}(q^2)$. **89i:20049**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Recursive p-adic numbers and elementary theories of finitely generated pro-p-groups. **89c:20044**
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Sandau, Reinhold Zur totalen Vervollständigung von direkten Produkten. (English and Russian summaries) [On the total completion of direct products] **89b:20066**
Siebeneicher, Christian *see* **Dress, Andreas, 89m:20025**
Würfel, Tilmann A note on the cup product for pro-p groups. **89c:20045**

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Asada, Mamoru (*with* Kaneko, Masanobu) On the automorphism group of some pro-l fundamental groups. **89h:20053**
Chatzidakis, Zoé Model theory of profinite groups having IP. III. **89j:03028**
Donkin, Stephen Space groups and groups of prime-power order. VIII. Pro-p-groups of finite coclass and p-adic Lie algebras. **89g:20038**
Hickin, Kenneth Some applications of tree-limits to groups. I. **89b:03053**
Kaneko, Masanobu *see* **Asada, Mamoru, 89h:20053**
Tavgen', O. I. On the conjectures of Grothendieck and Platonov. (Russian. English summary) **89h:20063**
Tsvetkov, V. M. Examples of two-dimensional pro-p-groups and Lie algebras. (Russian) **89a:12010**

20E22 Extensions, wreath products, and other compositions

Ch'ên, Yung Ch'iu Remarks on free Bieberbach groups. **89e:20056**
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Kovács, L. G. Some theorems on wreath products. **89k:20045**
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Sankaran, P. (*with* Varadarajan, K.) Some remarks on pseudo-mitotic groups. **89m:20027**
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Usenko, V. M. Semidirect products of groups. (Ukrainian. Russian summary) (Not in MR)
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Vasyakina, M. N. Wreath products of elementary abelian groups of various orders. (Ukrainian. Russian summary) **89d:20021**
Wilson, John S. Soluble products of minimax groups, and nearly surjective derivations. **89h:20039**
Zaïtsev, D. I. Splittable extensions of abelian groups. (Russian) **89a:20031**
— (*with* Maznichenko, V. A.) Hypercentral extensions of abelian groups. **89m:20028**
Zefirov, N. S. (*with* Kaluzhnin, L. A.; Trach, S. S.) A generalization of the concept of the wreath product of permutation groups and its application for the description of the structural formulas of chemical compounds. (Russian) **89a:20032**

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Dixon, Martyn R. (*with* Fournelle, Thomas A.) The construction of infinite finitely generated periodic groups using wreath products. **89e:20075**
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Fournelle, Thomas A. *see* **Dixon, Martyn R., 89e:20075**
Gruenberg, K. W. (*with* Roggenkamp, K. W.) The geometry of homogeneous extension categories. **89e:16044**
Kaluzhnin, L. A. (*with* Beletskiĭ, P. M.; Feĭnberg, V. Z.) ★ Kranzprodukte. (German) [Wreath products] **89g:20001**
List, R. J. (*with* Mahmoud, I. M. I.) Fischer matrices for wreath products $G\,w\,S_n$. **89e:20031**
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Martínez, Juan José The edge morphisms for the spectral sequence of a composite functor. **89m:18018**
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Wong, P. C. A note on the residual finiteness of finitely generated free-by-cyclic groups. **89i:20051**
Yagzhev, A. V. Nilpotency of extensions of an abelian group by an abelian group. **89j:20038**

0E25 Local properties

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all, J. I. Finitary linear transformation groups and elements of finite local degree. **89b:20067**
artley, Brian Fixed points of automorphisms of certain locally finite groups and Chevalley groups. **89d:20022**
einen, Felix (*with* Phillips, Richard E.) Algebraically closed groups in locally finite group classes. **89e:20057**
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humyatskiĭ, P. V. Local finiteness of some groups with a regular four-group of automorphisms. (Russian) **89g:20050**
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assidy, Charles Embedding of U_ω-groups in D_ω-groups. **89c:20041**
omin, A. N. (*with* Shunkov, V. P.) A condition for the nonsimplicity of locally finite groups. (Russian) **89i:20054**
aier, Berthold J. Two remarks on amalgams of locally finite groups. **89b:20062**
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0E26 Residual properties and generalizations

Wong, P. C. A note on the residual finiteness of finitely generated free-by-cyclic groups. **89i:20051**

Items with secondary classifications in 20E26

Andreadakis, S. (*with* Raptis, E.; Varsos, D.) A characterization of residually finite HNN-extensions of finitely generated abelian groups. **89g:20046**
Hempel, John Residual finiteness for 3-manifolds. **89b:57002**
Raptis, E. *see* **Andreadakis, S.; et al., 89g:20046**
Shirvani, M. On residually finite graph products. **89a:20028**
– A converse to a residual finiteness theorem of G. Baumslag. **89g:20047**
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20E28 Maximal subgroups, minimal subgroups

Bhattacharya, Prabir *see* **Mukherjee, N. P., 89i:20052**
Kleidman, Peter B. (*with* Liebeck, Martin W.) A survey of the maximal subgroups of the finite simple groups. **89e:20058**
Liebeck, Martin W. (*with* Saxl, Jan) On the orders of maximal subgroups of the finite exceptional groups of Lie type. **89b:20068**
– *see also* **Kleidman, Peter B., 89e:20058**
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Saxl, Jan *see* **Liebeck, Martin W., 89b:20068**
Walls, Gary Maximal subgroups with trivial intersections. (Not in MR)
Zheng, Yan Lü A characterization of Sy-groups in terms of their maximal subgroups. (Chinese. English summary) **89i:20053**

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Dye, R. H. A quick geometrical proof that $G_2(K)$ is maximal in $P\Omega_7(K)$. **89h:20067**
Kleidman, Peter B. The maximal subgroups of the Steinberg triality groups ${}^3D_4(q)$ and of their automorphism groups. **89f:20024**
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– (*with* Wilson, Robert A.) The maximal subgroups of J_4. **89b:20044**
Liebeck, Martin W. (*with* Praeger, Cheryl E.; Saxl, Jan) A classification of the maximal subgroups of the finite alternating and symmetric groups. **89b:20008**
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Seitz, Gary M. Representations and maximal subgroups. **89c:20029**
Tong, Dao Rong Second class of maximal subgroups in finite classical groups. **89e:20088**
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20E32 Simple groups [see also 20D05]

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Kantor, W. M. Some locally finite flag-transitive buildings. **89d:20023**
Otal, Javier (*with* Peña, Juan Manuel) Infinite locally finite groups of type PSL$(2, K)$ or Sz(K) are not minimal under certain conditions. **89d:20024**
Peña, Juan Manuel *see* **Otal, Javier, 89d:20024**
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Atabekyan, V. S. Simple and free periodic groups. (Russian) **89g:20067**
(Bannai, Eiichi) *see* **Conway, J. H., 89a:11067**
Chernikov, N. S. Infinite locally finite simple groups with a nontrivial kernel of a centralizer of an elementary abelian 2-subgroup. **89k:20053**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **89a:11067**
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Hall, J. I. Finitary linear transformation groups and elements of finite local degree. **89b:20067**
Hartley, Brian Centralizers in locally finite groups. **89c:20058**
Kleidman, Peter B. (*with* Liebeck, Martin W.) A survey of the maximal subgroups of the finite simple groups. **89e:20058**
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(Odlyzko, A. M.) *see* **Conway, J. H., 89a:11067**
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20E34 General structure theorems

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Chernikov, N. S. Factorizations of groups of automorphisms of a finitely generated module over a commutative ring. (Russian) **89a:20034**
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de Giovanni, Francesco (*with* Franciosi, Silvana) On groups in which every finite subgroup is complemented. (Italian. English summary) **89b:20069**
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Shunkov, V. P. Characterization of some finite Frobenius groups. **89j:20034**

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Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) Groups with a supersoluble triple factorization. **89i:20059**
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Hekster, N. S. (*with* van der Waall, Robert W.) Monomiality and 2-isoclinism of groups. **89j:20012**
Kopský, V. The use of subdirect and multiple subdirect products or sums in crystallography. **89h:20070**
Kraĭchuk, A. V. A class of groups with normal subgroups of infinite index. **89i:20046**
Kuzennyĭ, N. F. *see* **Subbotin, I. Ya., 89i:20032**
Lebedenko, V. M. ★ О системах образующих прямых сумм линейных алгебр и прямых произведений групп. (Russian) [Systems for generating direct sums of linear algebras and direct products of groups] **89f:17003**
Ren, Yong Cai The action of the Frobenius group and a generalization of Thompson's theorem. (Chinese. English summary) **89m:20020**
Semko, N. N. The structure of locally metacyclic groups. (Russian) **89a:20033**
Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Solvable groups with a quasicentralizer condition for nonabelian normal subgroups. (Russian) **89i:20032**
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Wilson, John S. Soluble groups which are products of minimax groups. **89g:20059**

20E36 General theorems concerning automorphisms of groups

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Gawron, Piotr Włodzimierz (*with* Macedońska, Olga) All automorphisms of the 3-nilpotent free group of countably infinite rank can be lifted. **89h:20042**
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Menegazzo, Federico (*with* Robinson, Derek J. S.) A finiteness condition on automorphism groups. **89c:20046**
Potter, Walter M. Nonsolvable groups with an automorphism inverting many elements. **89c:20047**
Robinson, Derek J. S. *see* **Menegazzo, Federico, 89c:20046**
Schupp, Paul E. A characterization of inner automorphisms. **89b:20070**
You, Hong (*with* Liu, Chang An) Automorphisms of a class of solvable groups. (Chinese) (Not in MR)

Items with secondary classifications in 20E36

Collins, Donald J. (*with* Turner, Edward C.) Free product fixed points. **89h:20037**
Cooper, Daryl Automorphisms of free groups have finitely generated fixed point sets. **89a:20024**
Hartley, Brian Fixed points of automorphisms of certain locally finite groups and Chevalley groups. **89d:20022**
Kovács, L. G. Some theorems on wreath products. **89k:20045**
Laue, Hartmut On automorphism groups which normalize an abelian normal subgroup. **89d:20028**
Peterson, Gary Lee Automorphism groups emitting local endomorphism near-rings. **89k:20051**
Shumyatskiĭ, P. V. Local finiteness of some groups with a regular four-group of automorphisms. (Russian) **89g:20050**
Thomas, Simon Fixed points of automorphisms of finitely generated free groups. **89f:20036**
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Zhang, Yong Zheng Automorphisms of projective orthogonal groups over a class of Φ-surjective rings. (Chinese) **89m:20050**

20E99 None of the above, but in this section

Gorchakov, Yu. M. Indecomposability of subdirect products of finite groups. (Russian) **89g:20051**

Hirshon, Ron Some properties of direct products. **89i:20056**

Hoare, A. H. M. Pregroups and length functions. **89c:20048**

Laue, Hartmut Direct decompositions of ideals and normal subgroups. **89f:20038**

Sun, Zong Ming The nth power group of a group. (Chinese) **89d:20026**

Sysak, Ya. P. Products of locally cyclic torsion-free groups. (Russian) **89g:20052**

Todorov, K. On some generalizations of the quaternion group. (Hungarian summary) **89j:20035**

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Dai, Dan Qian The structure of a direct product system and the realization of its transfer matrix. (Chinese. English summary) (Not in MR)

Fuchs, Peter Rudolf (*with* Maxson, C. J.) Near-fields associated with invariant linear κ-relations. **89f:16053**

Maxson, C. J. *see* **Fuchs, Peter Rudolf, 89f:16053**

Shalen, Peter B. Representations of 3-manifold groups and applications in topology. **89d:57019**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Armstrong, M. A. A presentation for a group of automorphisms of a simplicial complex. **89m:20030**

Baumslag, Gilbert (*with* Shalen, Peter B.) Affine algebraic sets and some infinite finitely presented groups. **89b:20071**

— (*with* Miller, Charles F., III) Some odd finitely presented groups. **89e:20059**

Benninghofen, Benjamin (*with* Richter, Michael M.) An application of nonstandard methods to computational group theory. (*see* **89m:03060**)

Brown, Kenneth S. Trees, valuations, and the Bieri-Neumann-Strebel invariant. **89e:20060**

Campbell, Colin M. (*with* Robertson, Edmund F.; Thomas, Richard M.) Fibonacci numbers and groups. **89h:20043**

Cavicchioli, Alberto On some properties of the groups $G(n,l)$. (Italian summary) **89m:20031**

Chiswell, I. M. Right-angled Coxeter groups. **89g:20053**

Conder, Marston Maximal automorphism groups of symmetric Riemann surfaces with small genus. **89c:20049**

— On the group $G^{6,6,6}$. **89e:20061**

Delgado, Alberto L. Amalgams of type F_3. **89m:20032**

Edjvet, Martin (*with* Howie, James) Star graphs, projective planes and free subgroups in small cancellation groups. **89m:20034**

— On a certain class of group presentations. **89m:20033**

Evans, Martin J. A note on two-generator groups. **89b:20072**

Fine, Benjamin (*with* Levin, Frank; Rosenberger, Gerhard) Free subgroups and decompositions of one-relator products of cyclics. II. Normal torsion-free subgroups and FPA decompositions. **89h:20044**

— (*with* Rosenberger, Gerhard) Complex representations and one-relator products of cyclics. **89g:20054**

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— (*with* Howie, James; Rosenberger, Gerhard) One-relator quotients and free products of cyclics. **89a:20035**

Frolova, E. N. *see* **Moldavanskiĭ, D. I.; et al., 89f:20040**

Gersten, S. M. Solutions of equations over ω-nilpotent groups. **89e:20062**

Howie, James *see* **Fine, Benjamin; et al., 89a:20035** *and* **Edjvet, Martin, 89m:20034**

Kravchenko, L. V. *see* **Moldavanskiĭ, D. I.; et al., 89f:20040**

Kushner, Harvey (*with* Lipschutz, Seymour) A generalization of Stallings' pregroup. **89m:20035**

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Longobardi, Patrizia (*with* Maj, Mercede) On the number of generators of a finite group. **89e:20063**

Lu, Ning On the mapping class group of the torus. **89f:20039**

Maj, Mercede *see* **Longobardi, Patrizia, 89e:20063**

Mennicke, Jens L. (*with* Neumann, B. H.) More on finite groups with few defining relations. **89k:20046**

Miller, Charles F., III *see* **Baumslag, Gilbert, 89e:20059**

Miyamoto, Izumi Computation of some Cayley diagrams. **89k:20047**

Moldavanskiĭ, D. I. (*with* Kravchenko, L. V.; Frolova, E. N.) Conjugacy separability of some groups with one defining relation. (Russian) **89f:20040**

— (*with* Timofeeva, L. V.) Finitely generated subgroups of a group which is defined by one relation and has a nontrivial center that are finitely separable. (Russian) **89b:20073**

Neumann, B. H. *see* **Mennicke, Jens L., 89k:20046**

Otto, Friedrich An example of a one-relator group that is not a one-relation monoid. **89b:20074**

Parry, Walter Counterexamples involving growth series and Euler characteristics. **89c:20051**

Pride, Stephen J. (*with* Stöhr, Ralph) Relation modules of groups with presentations in which each relator involves exactly two types of generators. **89f:20041**

Promislow, S. David A simple example of a torsion-free, nonunique product group. **89e:20064**

Richter, Michael M. *see* **Benninghofen, Benjamin, (89m:03060)**

Robertson, Edmund F. *see* **Campbell, Colin M.; et al., 89h:20043**

Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 89a:20035; 89c:20050; 89g:20054** *and* **89h:20044**

Rozhkov, A. V. Subgroups of some groups of Alëshin type. (Russian) **89f:20042**

Shalen, Peter B. *see* **Baumslag, Gilbert, 89b:20071**

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Birman, Joan S. (*with* Series, C.) Algebraic linearity for an automorphism of a surface group. **89j:57006**

Bludov, V. V. (*with* Khlamov, E. V.) Mechanization of investigations in group theory. (Russian) **89b:20003**

Ch'ên, Yung Ch'iu Remarks on free Bieberbach groups. **89e:20056**

Craggs, R. On the algebra of handle operations in 4-manifolds. **89k:57034**

Đoković, Dragomir Ž. Presentations of some finite simple groups. **89k:20023**

Floyd, William J. (*with* Plotnick, Steven P.) Symmetries of planar growth functions. **89f:22016**

Grams, Gerhard Erzeugende und Relationen gewisser orthogonaler und symplektischer Gruppen über GF(2). [Generators and relations of certain orthogonal and symplectic groups over GF(2)] **89c:20068**

Khlamov, E. V. *see* **Bludov, V. V., 89b:20003**

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Robertson, Edmund F. Tietze transformations with weighted substring search. **89h:68076**

Schupp, Paul E. Arrays, automata and groups—some interconnections. (*see* **89c:68078**)

Series, C. *see* **Birman, Joan S., 89j:57006**

Shokuev, V. N. Computation of inversions on the lattice of subgroups of a finite p-group. (Russian) **89m:20019**

Skopin, A. I. Investigation on a BÈSM-6 computer of the structure of the nilpotent series of a metabelian 2-generator group of exponent 27. (Russian) **89c:20052**

Soicher, Leonard H. Presentations for Conway's group Co_1. **89b:20046**

Thomas, Richard M. Cayley graphs and group presentations. **89e:20071**

Wang, Chun Sen *see* **Wang, Yang Xian, 89h:20066**

Wang, Yang Xian (*with* Wang, Chun Sen) Generators and the minimum length problem fo pseudo-orthogonal groups. (Chinese. English summary) **89h:20066**

Wilkinson, David Fredric The groups of exponent p and order p^7 (p any prime). **89h:20034**

Yoshikawa, Katsuyuki A ribbon knot group which has no free base. **89c:57025**

20F06 Cancellation theory

Denk, Gert (*with* Metzler, Wolfgang[1]) Nielsen reduction in free groups with operators. **89k:20048**

Metzler, Wolfgang[1] *see* **Denk, Gert, 89k:20048**

Pride, Stephen J. The diagrammatic asphericity of groups given by presentations in which each defining relator involves exactly two types of generators. **89h:20045**

Tschantz, Steven T. A finitely presented HNN-extension example: non-finitely generated groups, and an application of small cancellation theory. **89h:20046**

Van'kov, B. P. Identities in Greendlinger subgroups. (Russian) **89h:20047**

Items with secondary classifications in 20F06

Edjvet, Martin (*with* Howie, James) Star graphs, projective planes and free subgroups in small cancellation groups. **89m:20034**

— On a certain class of group presentations. **89m:20033**

Gersten, S. M. Reducible diagrams and equations over groups. **89d:20030**

Gromov, Mikhael L. Hyperbolic groups. **89e:20070**

Howie, James *see* **Edjvet, Martin, 89m:20034**

Pride, Stephen J. Star-complexes, and the dependence problems for hyperbolic complexes. **89k:20049**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03D05, 03D40, 06B25, 08A50, 68Qxx]

Bezverkhniĭ, V. N. Solution of the occurrence problem in some classes of groups with one defining relation. (Russian) **89e:20065**

— Solution of the conjugacy problem for words in Artin and Coxeter groups of large type. (Russian) **89g:20055**

Bokut', L. A. (*with* Kukin, G. P.) Undecidable algorithmic problems for semigroups, group and rings. (Russian) **89a:20036**

Kharlampovich, O. G. The word problem for subvarieties of the variety $\mathfrak{N}_2\mathfrak{A}$. (Russian) **89m:20036**

Kukin, G. P. *see* **Bokut', L. A., 89a:20036**

Pride, Stephen J. Star-complexes, and the dependence problems for hyperbolic complexes. **89k:20049**

Repin, N. N. Some simply defined groups with no algorithm that recognizes decidability of equations. (Russian) **89i:20057**

Stillwell, John The occurrence problem for mapping class groups. **89a:20037**

Items with secondary classifications in 20F10

Akimenko, A. M. General solution of a system of power equations in a braid group. (Russian) **89e:20072**

Autebert, Jean-Michel (*with* Boasson, Luc; Sénizergues, Géraud) Groups and NTS languages. **89a:68114**

Bludov, V. V. (*with* Khlamov, E. V.) Mechanization of investigations in group theory. (Russian) **89b:20003**

Boasson, Luc *see* **Autebert, Jean-Michel; et al., 89a:68114**
Farmer, William M. A unification algorithm for second-order monadic terms. **89k:03010**
Gersten, S. M. Reducible diagrams and equations over groups. **89d:20030**
Gromov, Mikhael L. Hyperbolic groups. **89e:20070**
Kantor, W. M. (*with* Taylor, D. E.) Polynomial-time versions of Sylow's theorem. **89h:20004**
Khlamov, E. V. *see* **Bludov, V. V., 89b:20003**
Lin, Yu Cai Relation word problems. **89k:03051**
Luks, E. M. Computing the composition factors of a permutation group in polynomial time. **89c:20007**
Makanin, G. S. A decidable fragment of the elementary theory of free groups. (Russian) **89h:03015**
Malkhasyan, A. Sh. Equations in a free group with coefficients depending on parameters. (Russian) **89a:20026**
Moldavanskiĭ, D. I. (*with* Timofeeva, L. V.) Finitely generated subgroups of a group which is defined by one relation and has a nontrivial center that are finitely separable. (Russian) **89b:20073**
Richter, Michael M. The Knuth-Bendix completion procedure, the growth function, and polycyclic groups. **89j:68078**
Sénizergues, Géraud *see* **Autebert, Jean-Michel; et al., 89a:68114**
Squier, Craig C. Word problems and a homological finiteness condition for monoids. **89a:20059**
Taylor, D. E. *see* **Kantor, W. M., 89h:20004**
Timofeeva, L. V. *see* **Moldavanskiĭ, D. I., 89b:20073**
Wrathall, C. The word problem for free partially commutative groups. **89h:68078**

20F12 Commutator calculus

Brandl, Rolf (*with* Wilson, John S.) Characterization of finite soluble groups by laws in a small number of variables. **89g:20056**
Wilson, John S. *see* **Brandl, Rolf, 89g:20056**

Items with secondary classifications in 20F12

Gupta, Chander Kanta (*with* Gupta, Narain; Levin, Frank) On dimension subgroups relative to certain product ideals. **89a:20005**
Gupta, Narain Dimension subgroups of metabelian p-groups. **89m:20042**
— *see also* **Gupta, Chander Kanta; et al., 89a:20005**
Hurley, T. C. Identifications in a free group. **89a:20025**
Kappe, Luise-Charlotte (*with* Morse, Robert Fitzgerald) Groups with 3-abelian normal closures. **89h:20048**
Levin, Frank *see* **Gupta, Chander Kanta; et al., 89a:20005**
Morse, Robert Fitzgerald *see* **Kappe, Luise-Charlotte, 89h:20048**
Romanenko, N. D. Characterization of finite π-solvable groups of π-length 1. (Russian) **89a:20017**

20F14 Derived series, central series, and generalizations

Skopin, A. I. Investigation on a BÈSM-6 computer of the structure of the nilpotent series of a metabelian 2-generator group of exponent 27. (Russian) **89c:20052**
— Realization of computer calculations in transmetabelian groups. **89g:20057**
van der Waall, Robert W. On n-isoclinic embedding of groups. **89j:20037**

Items with secondary classifications in 20F14

Chernikov, N. S. (*with* Petravchuk, A. P.) Characterization of periodic locally solvable groups with solvable and finite-exponential Sylow π-subgroups. (Russian) **89h:20055**
Gupta, Chander Kanta (*with* Gupta, Narain; Levin, Frank) On dimension subgroups relative to certain product ideals. **89a:20005**
Gupta, Narain Dimension subgroups of metabelian p-groups. **89m:20042**
— *see also* **Gupta, Chander Kanta; et al., 89a:20005**
Jambu, Michel Yves Algèbre d'holonomie de Lie et certaines fibrations topologiques. (English summary) [Holonomy Lie algebra and some topological fibrations] **89j:32018**
Kuz′min, Yu. V. (*with* Shapiro, M. Z.) The connection between varieties of groups and varieties of Lie rings. (Russian) **89g:20048**
Leone, A. Minimal non-KC finite p-groups. (Italian) **89b:20050**
Levin, Frank *see* **Gupta, Chander Kanta; et al., 89a:20005**
Petravchuk, A. P. *see* **Chernikov, N. S., 89h:20055**
Shapiro, M. Z. *see* **Kuz′min, Yu. V., 89g:20048**
Tyutin, V. I. n-ary groups with f-central series. (Russian) **89k:20107**

20F16 Solvable groups, supersolvable groups

Amberg, Bernhard Products of groups with finite rank. **89a:20038**
Baumslag, Gilbert (*with* Stammbach, U.; Strebel, Ralph) The free metabelian group of rank two contains continuously many nonisomorphic subgroups. **89e:20066**
Chernikov, N. S. ★ Группы, разложимые в произведение перестановочных подгрупп. (Russian) [Groups that decompose into a product of permutable subgroups] **89b:20075**
Emaldi, Maurizio Solvable groups with many maximal sensitive subgroups. (Italian. English summary) **89g:20058**
Franciosi, Silvana (*with* de Giovanni, Francesco) Soluble groups with many Černikov quotients. (Italian summary) **89f:20043**
de Giovanni, Francesco *see* **Franciosi, Silvana, 89f:20043**
Kuzennyĭ, N. F. (*with* Semko, N. N.) The structure of periodic metabelian meta-Hamiltonian groups with an elementary commutator subgroup of rank two. (Russian) **89m:20037**
May, Coy L. Supersolvable M^*-groups. **89a:20039**
Plesken, W. Towards a soluble quotient algorithm. **89d:20027**
Robinson, Derek J. S. (*with* Zhang, Zhi Rang) Groups whose proper quotients have finite derived subgroups. **89m:20038**
Semko, N. N. *see* **Kuzennyĭ, N. F., 89m:20037**
(Shunkov, V. P.) *see* **Chernikov, N. S., 89b:20075**
Stammbach, U. *see* **Baumslag, Gilbert; et al., 89e:20066**
Strebel, Ralph *see* **Baumslag, Gilbert; et al., 89e:20066**
van der Waall, Robert W. The Hall-Higman theorem for monomially-closed finite groups. **89c:20053**
Wilson, John S. Soluble groups which are products of minimax groups. **89g:20059**
Xu, Mao Qian Solvability of AT groups and infinite IT groups. (Chinese) **89m:20039**
Zhang, Ji Ping On the supersolvability of the QCLT-groups. (Chinese) **89f:20044**
Zhang, Zhi Rang *see* **Robinson, Derek J. S., 89m:20038**

Items with secondary classifications in 20F16

Asaad, Mohamed On the solvability and supersolvability of finite groups. (Arabic summary) **89d:20016**
Björner, Anders Some Cohen-Macaulay complexes arising in group theory. **89g:05036**
Brandl, Rolf (*with* Wilson, John S.) Characterization of finite soluble groups by laws in a small number of variables. **89g:20056**
Chamberlain, Robert F. Solvable groups with certain finite homomorphic images cyclic. **89i:20058**
Chernikov, N. S. Some conditions for the solvability of factorable locally graded groups. (Russian) **89f:20032**
Hartley, Brian Fixed points of automorphisms of certain locally finite groups and Chevalley groups. **89d:20022**
Liu, Chang An *see* **You, Hong**, (Not in MR)
Otal, Javier (*with* Peña, Juan Manuel) Groups in which every proper subgroup is Černikov-by-nilpotent or nilpotent-by-Černikov. **89j:20033**
Peña, Juan Manuel *see* **Otal, Javier, 89j:20033**
Poizat, Bruno Missionary mathematics. (French) **89b:03058**
Rhemtulla, A. H. (*with* Wilson, John S.) Elliptically embedded subgroups of polycyclic groups. **89b:20065**
Su, Xiang Ying Seminormal subgroups of finite groups. (Chinese. English summary) **89j:20025**
Toffalori, Carlo ω-stable structures of small CB-rank. **89d:03028b**
— ω-stable theories with a model of CB-rank 1. (Italian summary) **89d:03028a**
Wehrfritz, B. A. F. Soluble and locally soluble skew linear groups. **89j:20050**
— On the congruence topology. **89h:20072**
Wilson, John S. Soluble products of minimax groups, and nearly surjective derivations. **89h:20039**
— *see also* **Rhemtulla, A. H., 89b:20065** *and* **Brandl, Rolf, 89g:20056**
You, Hong (*with* Liu, Chang An) Automorphisms of a class of solvable groups. (Chinese) (Not in MR)
Zaĭtsev, D. I. Splittable extensions of abelian groups. (Russian) **89a:20031**
Zhai, Qi Bin A class of complete solvable groups of finite order. (Chinese. English summary) **89d:20020**
Zhang, Ji Ping (*with* Zhang, Lai Wu) The supersolvability of a class of finite groups. (Chinese) **89d:20019**
— S-quasinormality and supersolvability. (Chinese. English summary) **89e:20039**
Zhang, Lai Wu *see* **Zhang, Ji Ping, 89d:20019**

20F17 Formations of groups [see also 20D10]

Items with secondary classifications in 20F17

Fan, Yun The centrality, normality and cohomology associated with a formation. **89h:20028**
Goĭko, V. I. $\mathcal{F}$-pre-Frattini subgroups of finite groups. (Russian) **89a:20014**
Hartley, Brian (*with* Tomkinson, M. J.) Carter subgroups and injectors in a class of locally finite groups. **89m:20040**
McCann, Brendan Examples of minimal Fitting classes of finite groups. **89e:20038**
Tomkinson, M. J. *see* **Hartley, Brian, 89m:20040**

20F18 Nilpotent groups

Chamberlain, Robert F. Solvable groups with certain finite homomorphic images cyclic. **89i:20058**
Hilton, Peter Localization of derivations and the genus of groups with operators. **89g:20060**
Ibrahim, Mohamed A. (*with* Mishref, M. A. A.) Nilpotency of multiple extensions of finite groups. (Arabic summary) **89e:20067**
Kappe, Luise-Charlotte (*with* Morse, Robert Fitzgerald) Groups with 3-abelian normal closures. **89h:20048**
Maier, Berthold J. On universal nilpotent groups of class two. **89f:20045**
Mishref, M. A. A. *see* **Ibrahim, Mohamed A., 89e:20067**
Morse, Robert Fitzgerald *see* **Kappe, Luise-Charlotte, 89h:20048**
Yagzhev, A. V. Nilpotency of extensions of an abelian group by an abelian group. **89j:20038**

Items with secondary classifications in 20F18

Cenkl, Bohumil (*with* Porter, Richard) Cohomology of nilmanifolds. **89i:57018**
Gawron, Piotr Włodzimierz (*with* Macedońska, Olga) All automorphisms of the 3-nilpotent free group of countably infinite rank can be lifted. **89h:20042**
Gromadzki, Grzegorz A remark on the approximability of non-Euclidean crystallographic groups by nilpotent groups. (Russian. English summary) **89d:20043**
Grunewald, Fritz J. (*with* Segal, Daniel; Smith, Geoff C.) Subgroups of finite index in nilpotent groups. **89m:11084**
Gupta, Narain Dimension subgroups of metabelian p-groups. **89m:20042**
Izosov, A. V. Groups with a finite number of infinite classes of conjugate elements. (Russian) **89i:20061**
Longobardi, Patrizia (*with* Maj, Mercede) v-complete epimorphisms between lattices of normal subgroups. (Italian) **89m:20024**
Macedońska, Olga *see* **Gawron, Piotr Włodzimierz, 89h:20042**
Maj, Mercede *see* **Longobardi, Patrizia, 89m:20024**
Oger, Francis Elementary equivalence and genus of finitely generated nilpotent groups. **89h:20003**

— Elementary equivalence and profinite completions: a characterization of finitely generated abelian-by-finite groups. **89i:03068**
Passi, I. B. S. (*with* Sucheta; Tahara, Ken-Ichi) Dimension subgroups and Schur multiplicator. III. **89b:20110**
Péladeau, Pierre (*with* Thérien, Denis) Sur les langages reconnus par des groupes nilpotents. (English summary) [On the languages recognized by nilpotent groups] **89a:68055**
Piontkovskaya, N. A. Examples of nilpotent groups that are not strongly defined by the lattice of their subgroups. (Russian) **89i:20047**
Porter, Richard *see* **Cenkl, Bohumil, 89i:57018**
Segal, Daniel *see* **Grunewald, Fritz J.; et al., 89m:11084**
Smith, Geoff C. *see* **Grunewald, Fritz J.; et al., 89m:11084**
Sucheta *see* **Passi, I. B. S.; et al., 89b:20110**
Tahara, Ken-Ichi *see* **Passi, I. B. S.; et al., 89b:20110**
Thérien, Denis *see* **Péladeau, Pierre, 89a:68055**

20F19 Generalizations of solvable and nilpotent groups

Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) On trifactorized soluble minimax groups. **89g:20061**
— (*with* Franciosi, Silvana; de Giovanni, Francesco) Groups with a nilpotent triple factorisation. **89g:20062**
— (*with* Franciosi, Silvana; de Giovanni, Francesco) Groups with a supersoluble triple factorization. **89i:20059**
Franciosi, Silvana *see* **Amberg, Bernhard; et al., 89g:20061; 89g:20062** *and* **89i:20059**
de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 89g:20061; 89g:20062** *and* **89i:20059**
Goretskiĭ, V. È. *see* **Kurdachenko, L. A.; et al., 89h:20049**
Hartley, Brian (*with* Tomkinson, M. J.) Carter subgroups and injectors in a class of locally finite groups. **89m:20040**
Ibrahim, Mohamed A. (*with* Tawakkol, F.) Conditions of generalized nilpotency in classes of groups. (Arabic summary) **89e:20068**
Ivan, Gh. Finite quasisolvable groups. **89i:20060**
Kurdachenko, L. A. (*with* Pylaev, V. V.; Goretskiĭ, V. È.) Groups with a system of minimax quotient groups. (Russian. English summary) **89h:20049**
Kuzennyĭ, N. F. (*with* Subbotin, I. Ya.) New characterizations of locally nilpotent $\overline{\mathrm{IH}}$-groups. **89h:20050**
Pylaev, V. V. *see* **Kurdachenko, L. A.; et al., 89h:20049**
Subbotin, I. Ya. *see* **Kuzennyĭ, N. F., 89h:20050**
Tawakkol, F. *see* **Ibrahim, Mohamed A., 89e:20068**
Tomkinson, M. J. *see* **Hartley, Brian, 89m:20040**

Items with secondary classifications in 20F19

Bryce, R. A. (*with* Cossey, John; Ormerod, E. A.) Fitting classes after Dark. **89m:20017**
Cossey, John *see* **Bryce, R. A.; et al., 89m:20017**
Halbritter, Norbert Groups with a nilpotent-by-finite triple factorization. **89k:20044**
Karbe, M. J. (*with* Kurdachenko, L. A.) Just infinite modules over locally soluble groups. **89m:20009**
Kurdachenko, L. A. *see* **Karbe, M. J., 89m:20009**
Maznichenko, V. A. *see* **Zaĭtsev, D. I., 89m:20028**
Oger, Francis Elementary equivalence and profinite completions: a characterization of finitely generated abelian-by-finite groups. **89i:03068**
Ormerod, E. A. *see* **Bryce, R. A.; et al., 89m:20017**
Robinson, Derek J. S. Vanishing theorems for cohomology of locally nilpotent groups. **89a:20058b**
— Cohomology of locally nilpotent groups. **89a:20058a**
Stonehewer, S. E. (*with* Zacher, G.) On groups with an interval isomorphic to a projective geometry. **89i:20048**
Zacher, G. *see* **Stonehewer, S. E., 89i:20048**
Zaĭtsev, D. I. (*with* Maznichenko, V. A.) Hypercentral extensions of abelian groups. **89m:20028**

20F22 Other classes of groups defined by subgroup chains

Items with secondary classifications in 20F22

Brandl, Rolf The Dilworth number of subgroup lattices. **89e:20054**
Kurdachenko, L. A. (*with* Pylaev, V. V.) Groups that are rich in almost normal subgroups. **89h:20052**
Kuzennyĭ, N. F. (*with* Subbotin, I. Ya.) New characterizations of locally nilpotent $\overline{\mathrm{IH}}$-groups. **89h:20050**
Pylaev, V. V. *see* **Kurdachenko, L. A., 89h:20052**
Subbotin, I. Ya. *see* **Kuzennyĭ, N. F., 89h:20050**

20F24 FC-groups and their generalizations

Dixon, Martyn R. Fitting classes of CC-groups. **89m:20041**
Izosov, A. V. Groups with two infinite classes of conjugate elements. (Russian) **89c:20054**
— (*with* Sesekin, N. F.) Groups with a finite number of infinite classes of conjugate subgroups. **89h:20051**
— Groups with a finite number of infinite classes of conjugate elements. (Russian) **89i:20061**
Kurdachenko, L. A. (*with* Pylaev, V. V.) Groups that are rich in almost normal subgroups. **89h:20052**
Otal, Javier (*with* Peña, Juan Manuel) Minimal non-CC-groups. **89g:20063**
— (*with* Peña, Juan Manuel) Characterizations of the conjugacy of Sylow p-subgroups of CC-groups. **89k:20050**
Peña, Juan Manuel *see* **Otal, Javier, 89g:20063** *and* **89k:20050**
Pylaev, V. V. *see* **Kurdachenko, L. A., 89h:20052**
Sesekin, N. F. *see* **Izosov, A. V., 89h:20051**
Zhang, Zhi Rang The decomposition of local principal factor blocks in periodic FC-groups and the local conjugacy theorem. (Chinese) **89b:20076**

Items with secondary classifications in 20F24

Brodie, M. A. (*with* Chamberlain, Robert F.; Kappe, Luise-Charlotte) Finite coverings by normal subgroups. **89i:20062**
Chamberlain, Robert F. *see* **Brodie, M. A.; et al., 89i:20062**
Kappe, Luise-Charlotte *see* **Brodie, M. A.; et al., 89i:20062**
Otal, Javier (*with* Peña, Juan Manuel) Infinite locally finite groups of type PSL$(2,K)$ or Sz(K) are not minimal under certain conditions. **89d:20024**
Peña, Juan Manuel *see* **Otal, Javier, 89d:20024**
Verardi, Libero On groups whose noncentral elements have the same finite number of conjugates. (Italian summary) **89k:20037**

20F26 Special subgroups

Brodie, M. A. (*with* Chamberlain, Robert F.; Kappe, Luise-Charlotte) Finite coverings by normal subgroups. **89i:20062**
Chamberlain, Robert F. *see* **Brodie, M. A.; et al., 89i:20062**
Gupta, Narain Dimension subgroups of metabelian p-groups. **89m:20042**
Kappe, Luise-Charlotte *see* **Brodie, M. A.; et al., 89i:20062**
Liman, F. N. Nonperiodic groups all of whose decomposable pd-subgroups are normal. **89g:20064**

Items with secondary classifications in 20F26

Hartley, Brian Centralizers in locally finite groups. **89c:20058**
— (*with* Tomkinson, M. J.) Carter subgroups and injectors in a class of locally finite groups. **89m:20040**
Hawkes, Trevor Subgroup embedding properties. **89c:20039**
Ĭvanyuta, Ĭ. D. Sylow p-subgroups of the group U(q^2). **89i:20049**
Kuzennyĭ, N. F. (*with* Levishchenko, S. S.; Semko, N. N.) Groups with normal infinite nonabelian subgroups. **89g:20049**
Leone, A. Minimal non-KC finite p-groups. (Italian) **89b:20050**
Levishchenko, S. S. *see* **Kuzennyĭ, N. F.; et al., 89g:20049**
Pérez-Ramos, M. D. A self-centralizing characteristic subgroup. **89j:20027**
Semko, N. N. *see* **Kuzennyĭ, N. F.; et al., 89g:20049**
Tomkinson, M. J. *see* **Hartley, Brian, 89m:20040**

20F28 Automorphism groups of groups [see also 20E36]

Asada, Mamoru (*with* Kaneko, Masanobu) On the automorphism group of some pro-l fundamental groups. **89h:20053**
Bachmuth, S. (*with* Baumslag, Gilbert; Dyer, J.; Mochizuki, H. Y.) Automorphism groups of two generator metabelian groups. **89a:20040**
Baumslag, Gilbert *see* **Bachmuth, S.; et al., 89a:20040**
Bodnarchuk, Yu. V. Automorphisms of bounded wreath products of groups. (Ukrainian. Russian summary) (Not in MR)
Dyer, J. *see* **Bachmuth, S.; et al., 89a:20040**
James, Lynne D. Complexes and Coxeter groups—operations and outer automorphisms. **89c:20055**
Kaneko, Masanobu *see* **Asada, Mamoru, 89h:20053**
Laue, Hartmut On automorphism groups which normalize an abelian normal subgroup. **89d:20028**
Lennox, John (*with* Menegazzo, Federico; Smith, Howard; Wiegold, James) Groups with finite automorphism classes of subgroups. **89j:20039**
McCool, James The automorphism groups of finite extensions of free groups. **89c:20056**
Menegazzo, Federico *see* **Lennox, John; et al., 89j:20039**
Mochizuki, H. Y. *see* **Bachmuth, S.; et al., 89a:20040**
Peterson, Gary Lee Automorphism groups emitting local endomorphism near-rings. **89k:20051**
Smith, Howard *see* **Lennox, John; et al., 89j:20039**
Tits, J. Sur le groupe des automorphismes de certains groupes de Coxeter. [On the group of automorphisms of certain Coxeter groups] **89b:20077**
Wiegold, James *see* **Lennox, John; et al., 89j:20039**

Items with secondary classifications in 20F28

Bogopol'skiĭ, O. V. Arborial decomposability of groups of automorphisms of free groups. (Russian) **89i:20045**
Collins, Donald J. The automorphism group of a free product of finite groups. **89e:20092**
Fuchs, Peter Rudolf (*with* Maxson, C. J.; Pettet, M. R.; Smith, Kirby C.) Centraliser near-rings determined by fixed point free automorphism groups. **89a:16051**
Guo, Wen Bin *see* **Jing, Feng Jie, 89j:20030**
Heineken, Hermann Soluble irreducible groups of automorphisms of certain groups of class two. **89b:20049**
Ikeda, Toshiharu Locally inner derivations of ideally finite Lie algebras. **89m:17029**
Jing, Feng Jie (*with* Guo, Wen Bin) Finite abelian groups with automorphism groups of order 6 or 8. (Chinese. English summary) **89j:20030**
Khramtsov, D. G. Finite subgroups of groups of outer automorphisms of free groups. (Russian) **89j:20031**
Maxson, C. J. *see* **Fuchs, Peter Rudolf; et al., 89a:16051**
Menegazzo, Federico (*with* Robinson, Derek J. S.) A finiteness condition on automorphism groups. **89c:20046**
Pettet, M. R. *see* **Fuchs, Peter Rudolf; et al., 89a:16051**
Robinson, Derek J. S. *see* **Menegazzo, Federico, 89c:20046**
Smith, Kirby C. *see* **Fuchs, Peter Rudolf; et al., 89a:16051**
Thomas, Simon Fixed points of automorphisms of finitely generated free groups. **89f:20036**
Varsos, D. The automorphism group of certain HNN extensions. **89e:20053**

0F29 Representations of groups as automorphism groups of algebraic systems

schbacher, Michael The 27-dimensional module for E_6. II. **89a:20041**
ujalance, E. A note on the group of automorphisms of a compact Klein surface. (Spanish. English summary) **89e:20069**
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ugas, Manfred (*with* Göbel, Rüdiger) All infinite groups are Galois groups over any field. **89e:12010**
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eurissen, R. H. A proof by graphs that PSL$(2, 7) \cong$ PSL$(3, 2)$. **89f:05094**
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Morita, Jun (*with* Wakimoto, Minoru) A Lie algebraic approach to the Diophantine equation $x_1^2 + x_2^2 + \cdots + x_n^2 = y^2$ ($n \leq 9$) and its transformation group. **89a:11028**
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chwarz, Gerald W. Invariant theory of G_2 and Spin$_7$. **89k:14080**
trunkov, S. P. A criterion for the existence of a spectral expansion of a function of a stationary process. (Russian) **89h:60060**
Wakimoto, Minoru *see* **Morita, Jun, 89a:11028**

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Alperin, Roger (*with* Bass, Hyman) Length functions of group actions on Λ-trees. **89c:20057**
Bass, Hyman *see* **Alperin, Roger, 89c:20057**
Baumslag, Gilbert A problem of Stallings on the direct square of a free group. **89d:20029**
Conder, Marston Groups of minimal genus including C_2 extensions of PSL$(2, q)$ for certain q. **89a:20043**
Gersten, S. M. Reducible diagrams and equations over groups. **89d:20030**
Gromov, Mikhael L. Hyperbolic groups. **89e:20070**
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Smillie, John (*with* Vogtmann, Karen) Automorphisms of graphs, p-subgroups of Out(F_n) and the Euler characteristic of Out(F_n). **89b:20079**
Thomas, Richard M. Cayley graphs and group presentations. **89e:20071**
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Vogtmann, Karen *see* **Smillie, John, 89b:20079**

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Akers, Sheldon B. (*with* Krishnamurthy, Balakrishnan) A group-theoretic model for symmetric interconnection networks. **89k:68115**
Bezverkhnii, V. N. Solution of the conjugacy problem for words in Artin and Coxeter groups of large type. (Russian) **89g:20055**
Bokowski, Jürgen (*with* Wills, J. M.) Regular polyhedra with hidden symmetries. **89c:52011**
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Krishnamurthy, Balakrishnan *see* **Akers, Sheldon B., 89k:68115**
Montesinos, José María ★ Classical tessellations and three-manifolds. **89d:57016**
Picardello, Massimo A. (*with* Woess, Wolfgang) Martin boundaries of random walks: ends of trees and groups. **89a:60177**
Pride, Stephen J. The diagrammatic asphericity of groups given by presentations in which each defining relator involves exactly two types of generators. **89h:20045**
— Star-complexes, and the dependence problems for hyperbolic complexes. **89k:20049**
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Rosenfeld, B. A. ★ A history of non-Euclidean geometry. **89k:01001**
(Shenitzer, Abe) *see* **Rosenfeld, B. A., 89k:01001**
Squier, Craig C. *see* **Brin, Matthew G., 89i:05099**
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Zieschang, Paul-Hermann Cayley graphs of finite groups. **89i:05144**

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

Items with secondary classifications in 20F34

Birman, Joan S. (*with* Series, C.) Algebraic linearity for an automorphism of a surface group. **89j:57006**
Hempel, John Residual finiteness for 3-manifolds. **89b:57002**
Humphries, S. P. (*with* Long, D. D.) On the Mal′cev quotients of certain hyperbolic link groups. **89a:22018**
Long, D. D. *see* **Humphries, S. P., 89a:22018**
Penner, R. C. A construction of pseudo-Anosov homeomorphisms. **89k:57026**
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Wielenberg, Norbert J. Polyhedral orbifold groups. **89a:22019**
Zimmermann, Bruno Surfaces and the second homology of a group. **89a:57012**

20F36 Braid groups

Akimenko, A. M. General solution of a system of power equations in a braid group. (Russian) **89e:20072**
Gurzo, G. G. Systems of generators for the centralizers of the rigid elements of a braid group. **89e:20073**
Lehrer, G. I. A survey of Hecke algebras and the Artin braid groups. **89m:20043**
Long, D. D. On the linear representation of braid groups. **89h:20054**
Morton, H. R. Problems. (*see* **89f:20003**)
Repin, N. N. Commutator equations in the groups B_3 and B_4. (Russian) **89e:20074**
Trubitsyn, Yu. È. Normalizers of finite sets in Artin groups of finite type. (Russian) **89g:20065**
Wajnryb, B. Markov classes in certain finite symplectic representations of braid groups. **89m:20044**

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(Birman, Joan S.) *see* **Braids, 89f:20003**
Gonçalves, Daciberg Lima Braid groups and Wecken pairs. **89h:55002**
Jambu, Michel Yves Arrangements d'hyperplans. I. Les groupes de réflexions. (English summary) [Arrangements of hyperplanes. I. Reflection groups] **89f:32022**
Jones, V. F. R. Hecke algebra representations of braid groups and link polynomials. **89c:46092**
Libgober, A. On divisibility properties of braids associated with algebraic curves. **89m:57007**
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Murakami, Jun The Kauffman polynomial of links and representation theory. **89c:57007**
Pride, Stephen J. The diagrammatic asphericity of groups given by presentations in which each defining relator involves exactly two types of generators. **89h:20045**
Squier, Craig C. Matrix representations of Artin groups. **89d:20013**
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Conference:
  Artin's Braid Group ★ Braids. **89f:20003**
Contemporary Mathematics ★ Braids. **89f:20003**
Santa Cruz, CA ★ Braids. **89f:20003**

20F38 Other groups related to topology or analysis

Items with secondary classifications in 20F38

Bezverkhniĭ, V. N. Solution of the conjugacy problem for words in Artin and Coxeter groups of large type. (Russian) **89g:20055**
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Johnson, F. E. A. On surface Bieberbach groups. **89d:57013**
Sankaran, P. (*with* Varadarajan, K.) Some remarks on pseudo-mitotic groups. **89m:20027**
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Varadarajan, K. *see* **Sankaran, P., 89m:20027**
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20F40 Associated Lie structures

Anick, David J. Inert sets and the Lie algebra associated to a group. **89d:20031**

Items with secondary classifications in 20F40

Adyan, S. I. (*with* Razborov, A. A.) Periodic groups and Lie algebras. (Russian) **89i:20033**
Gupta, Narain Dimension subgroups of metabelian p-groups. **89m:20042**
Kostrikin, Alekseĭ Ivanovich ★ Вокруг Бернсайда. (Russian) [Around Burnside] **89d:20032**
Kuz′min, Yu. V. (*with* Shapiro, M. Z.) The connection between varieties of groups and varieties of Lie rings. (Russian) **89g:20048**
Razborov, A. A. *see* **Adyan, S. I., 89i:20033**
Shapiro, M. Z. *see* **Kuz′min, Yu. V., 89g:20048**

20F45 Engel conditions

Brandl, Rolf Infinite soluble groups with the Bell property: a finiteness condition. **89a:20044**
Kappe, Luise-Charlotte Finite coverings by 2-Engel groups. **89k:20052**

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Kappe, Luise-Charlotte (*with* Morse, Robert Fitzgerald) Groups with 3-abelian normal closures. **89h:20048**
Khukhro, E. I. A new identity in the Lie ring of a free group of prime period and of a group without the Hughes property. (Russian) **89a:17018**
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Morse, Robert Fitzgerald *see* **Kappe, Luise-Charlotte, 89h:20048**

20F50 Periodic groups

Asar, A. O. An elementary proof of Hartley's lemma. (Turkish summary) **89g:20066**
Atabekyan, V. S. Simple and free periodic groups. (Russian) **89g:20067**
Chernikov, N. S. (*with* Petravchuk, A. P.) Characterization of periodic locally solvable groups with solvable and finite-exponential Sylow π-subgroups. (Russian) **89h:20055**
— Infinite locally finite simple groups with a nontrivial kernel of a centralizer of an elementary abelian 2-subgroup. **89k:20053**
Dixon, Martyn R. (*with* Fournelle, Thomas A.) The construction of infinite finitely generated periodic groups using wreath products. **89e:20075**

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Hartley, Brian Centralizers in locally finite groups. **89c:20058**

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Liman, F. N. On periodic groups all of whose decomposable *pd*-subgroups are normal. **89g:20068**

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Phillips, Richard E. On absolutely simple locally finite groups. **89m:20045**

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Shumyatskiĭ, P. V. Periodic groups with a regular four-group of automorphisms. (Russian) **89i:20063**

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Rozhkov, A. V. Subgroups of some groups of Alëshin type. (Russian) **89f:20042**

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20F60 Ordered groups [See mainly 06F15]

Items with secondary classifications in 20F60

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Petrova, Nadezhda L. *see* **Todorinov, S., 89m:06021**

Todorinov, S. (*with* Petrova, Nadezhda L.) On L. Fuchs's semigroup condition concerning the linear orderability of a group. (Russian) **89m:06021**

20F99 None of the above, but in this section

Freiman, G. (*with* Schein, Boris M.) Group and semigroup theoretic considerations inspired by inverse problems of the additive number theory. **89j:20040**

Kuhn, Heinrich A dihedral calculus for groups. **89j:20041**

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Shunkov, V. P. M_p-groups with a kernel of arbitrary rank. (Russian) **89i:20064**

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Björner, Anders (*with* Wachs, Michelle L.) Generalized quotients in Coxeter groups. **89c:05012**

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van Est, W. T. (*with* van der Lee, M. A. M.) Enlargeability of local groups according to Mal′cev and Cartan-Smith. **89i:22012**

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Zakrzewski, Piotr Extensions of invariant ideals. **89f:03040**

Zalcstein, Yechezkel *see* **Garzon, Max, 89e:20102** *and* **89e:20103**

20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

Akin, Kaan (*with* Buchsbaum, David A.) Characteristic-free realizations of the Giambell and Jacobi-Trudi determinantal identities. **89i:20065**

— Representations of GL(n) and Schur algebras. **89k:20055**

Alvis, Dean Families of irreducible characters of Weyl groups. **89c:20059**

Andersen, Henning Haahr Modular representations of algebraic groups. **89b:20082**

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Broué, Michel (*with* Michel, Jean) Blocs et séries de Lusztig dans un groupe réductif fini. (English summary) [Blocks and Lusztig series for a reductive finite group] **89a:20045**

Buchsbaum, David A. *see* **Akin, Kaan, 89i:20065**

Carter, R. W. ★ On the structure and complex representation theory of finite groups of Li type. **89a:20046**

Cline, Ed Simulating algebraic geometry with algebra. III. The Lusztig conjecture as a TG problem. **89c:20062c**

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Digne, François Shintani descent and $\mathscr{L}$ functions on Deligne-Lusztig varieties. **89b:2008**

Donkin, Stephen On Schur algebras and related algebras. I. **89b:20084a**

— Good filtrations of rational modules for reductive groups. **89f:20048**

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— On conjugating representations and adjoint representations of semisimple groups. **89a:20047**

— Skew modules for reductive groups. **89g:20070**

— Invariants of unipotent radicals. **89e:20076**

Doty, Stephen R. Composition factors of induced modules for algebraic groups and their Frobenius subgroups. **89c:20060**

— (*with* Sullivan, John B.) On the geometry of extensions of irreducible modules for simpl algebraic groups. **89f:20049**

— (*with* Sullivan, John B.) On the intertwinings between higher cohomology modules of li bundles on G/B. **89b:20085**

— (*with* Sullivan, John B.) On the structure of the higher cohomology modules of line bundles on G/B. **89d:20033**

El Badawy Yehia, S. The blocks of the parabolic subgroups of semisimple algebraic groups (Arabic summary) **89e:20077**

(Fleischmann, Peter) *see* **Curtis, Ch., 89g:20069**

Gilkey, Peter B. (*with* Seitz, Gary M.) Some representations of exceptional Lie algebras. **89h:20056**

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Güzel, Erhan Les représentations irréductibles complexes des groupes SL$(3,p)$, PSL$(3,p)$. [Complex irreducible representations of the groups SL$(3,p)$ and PSL$(3,p)$] **89j:20042**

Kaneda, Masaharu On the inverse Kazhdan-Lusztig polynomials for affine Weyl groups. **89a:20048**

Kempf, George R. Computing invariants. **89h:20057**

— (*with* Ness, Linda) Tensor products of fundamental representations. **89m:20046**

— Stability in representations. **89j:20043**

Koike, Kazuhiko (*with* Terada, Itaru) Young-diagrammatic methods for the representation theory of the groups Sp and SO. **89b:20086**

Kraft, H. (*with* Procesi, C.) Graded morphisms of G-modules. (French summary) **89e:20078**

(Külshammer, Burkhard) *see* **Carter, R. W., 89a:20046**

Lawton, Gregory Two-sided cells in the affine Weyl group of type $\tilde{A}_{n-1}$. **89m:20047**

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Nagornyĭ, S. V. Complex representations of special unitary groups of odd dimension over a finite field. (Russian) **89j:20044**

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Ohmori, Zyozyu On the Schur indices of certain irreducible characters of reductive groups over finite fields. **89d:20034**

— On the Schur indices of certain irreducible characters of simple algebraic groups over finite fields. **89j:20045**

Parshall, Brian J. Simulating algebraic geometry with algebra. II. Stratifying representation categories. **89c:20062b**

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— *see also* **Gilkey, Peter B., 89h:20056**

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Sukhanov, A. A. The description of observable subgroups of linear algebraic groups. (Russian) **89i:20068**

Sullivan, John B. The Euler character and cancellation theorems for Weyl modules. **89k:20056**

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— Weyl modules for p-singular weights. **89d:20036**

— A filtration of Weyl modules for large weights. **89j:20047**

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Akin, Kaan On complexes relating the Jacobi-Trudi identity with the Bernstein-Gel′fand-Gel′fand resolution. **89i:22030**

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Douglass, J. Matthew (*with* Shelton, Brad) On matrix coefficients of the reflection representation. **89e:17011**

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— Restricted Lie algebra cohomology. **89h:17023**

— Representations of Chevalley groups in their own characteristic. **89g:20076**

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Kunyavskiĭ, B. È. Tori that are split over a Galois extension with group S_3. (Russian) (*see* **89a:11006**)

Lehrer, G. I. On hyperoctahedral hyperplane complements. **89g:20079**

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Xi, Nan Hua Some results on Green functions on finite groups of Lie type. (Chinese. English summary) **89h:20068**

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20G10 Cohomology theory

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Betley, S. Homological stability for $\mathrm{O}_{n,n}$ over a local ring. **89b:20090**

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— A filtration of Weyl modules for large weights. **89j:20047**

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20G15 Linear algebraic groups over arbitrary fields

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Bryant, Roger M. Automorphism groups of nilpotent Lie algebras. **89b:20093**

Cao, You An A generator theorem for the orthogonal group $\mathrm{O}_n(V)$. (Chinese. English summary) **89j:20049**

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Hosokawa, H. *see* **Kimura, Tatsuo; et al., 89e:20083**

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Kimura, Tatsuo (*with* Kasai, S.; Hosokawa, H.) Universal transitivity of simple and 2-simple prehomogeneous vector spaces. (French summary) **89e:20083**

Li, Zun Xian Quaternion algebra and automorphisms of $\mathrm{PO}_4^+(V)$, $\mathrm{PO}_4'(V)$ and $\mathrm{P}\Omega_4(V)$. **89e:20084**

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Pan, Jiang Min Automorphisms of the unipotent radicals of Borel subgroups of GL($1 + n, k$). (Chinese) **89i:20069**

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— Subgroups of the special linear group which contain the group of diagonal matrices. III. (Russian. English summary) **89b:20097**
— Subgroups of split orthogonal groups. **89g:20074**
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Wang, Jian Pan On the cyclicity and cocyclicity of G-modules. **89h:20064**
Wehrfritz, B. A. F. Soluble and locally soluble skew linear groups. **89j:20050**
Yuan, Bing Cheng The factorization length theorem for the orthogonal subgroup $O_n(V)$ and its commutator subgroup $\Omega_n(V)$. (Chinese) **89k:20060**
Zhang, Guang Hua *see* **Song, Ming Jie, 89h:20062**

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Abe, Eiichi (*with* Morita, Jun) Some Tits systems with affine Weyl groups in Chevalley groups over Dedekind domains. **89e:20086**
Aschbacher, Michael The 27-dimensional module for E_6. II. **89a:20041**
Barnabei, Marilena (*with* Brini, Andrea) Symmetrized skew determinants. **89a:20010**
Boffi, Giandomenico The case of the submaximal minors: a finishing touch. **89e:13016**
— The universal form of the Littlewood-Richardson rule. **89f:20047**
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Brini, Andrea *see* **Barnabei, Marilena, 89a:20010**
Cohen, Arjeh M. (*with* Helminck, Aloysius G.) Trilinear alternating forms on a vector space of dimension 7. **89h:20060**
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Grosshans, Frank D. Separated orbits for certain nonreductive subgroups. **89k:14012**
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89b:11031**
Hanssens, G. A characterization of point-line geometries for finite buildings. **89f:51029**
Hartley, Brian Fixed points of automorphisms of certain locally finite groups and Chevalley groups. **89d:20022**
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Suprunenko, I. D. *see* **Zalesskiĭ, A. E., 89b:20036**
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Zalesskiĭ, A. E. (*with* Suprunenko, I. D.) Representations of dimension $(p^n \pm 1)/2$ of the symplectic group of degree $2n$ over a field of characteristic p. (Russian. English summary) **89b:20036**

20G20 Linear algebraic groups over the reals, the complexes, the quaternions

Fournelle, Thomas A. (*with* Sidki, Said; Weston, K.) On algebraic embeddings of rings into groups. **89j:20051**
Lindsey, J. H., II A new lattice for the Hall-Janko group. **89g:20075**
Lubotzky, A. A group theoretic characterization of linear groups. **89c:20066**
Moszner, Zenon Les sous-groupes à un paramètre du groupe affine. [One-parameter subgroups of the affine group] **89j:20052**
Popov, A. M. Finite isotropy subgroups in general position of irreducible semisimple linear Lie groups. **89a:20049**
Sidki, Said *see* **Fournelle, Thomas A.; et al., 89j:20051**
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Akin, Kaan On complexes relating the Jacobi-Trudi identity with the Bernstein-Gel′fand-Gel′fand resolution. **89i:22030**
Ariki, Susumu On the representations of the Weyl groups of type D corresponding to the zero weights of the representations of $SO(2n, C)$. **89k:22022**
Dupont, Johan L. (*with* Parry, Walter; Sah, Chih-Han) Homology of classical Lie groups made discrete. II. H_2, H_3, and relations with scissors congruences. **89h:22019**
Iwamoto, Takashi Algebraic groups and co-compact subgroups of complex linear groups. **89d:22005**
Matsuzawa, Jun-ichi On the generalized exponents of classical Lie groups. **89m:22020**
Parry, Walter *see* **Dupont, Johan L.; et al., 89h:22019**
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Yano, Tamaki On the complete localization of prehomogeneous vector spaces. **89b:32040**

20G25 Linear algebraic groups over local fields and their integers

Abe, Eiichi (*with* Morita, Jun) Some Tits systems with affine Weyl groups in Chevalley groups over Dedekind domains. **89e:20086**
Bruhat, F. (*with* Tits, J.) Schémas en groupes et immeubles des groupes classiques sur un corps local. II. Groupes unitaires. (English summary) [Group schemes and buildings of classical groups over a local field. II. Unitary groups] **89b:20098**
— (*with* Tits, J.) Groupes algébriques sur un corps local. Chapitre III. Compléments et applications à la cohomologie galoisienne. [Algebraic groups over local fields. III. Further remarks and applications to Galois cohomology] **89b:20099**
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Pantoja, José E. (*with* Soto-Andrade, Jorge) Structure of generalized local rigid motion groups. **89m:22011**
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20G30 Linear algebraic groups over global fields and their integers

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Morita, Jun *see* **Abe, Eiichi, 89e:20086**
Rapinchuk, A. S. The congruence subgroup problem for algebraic groups and strong approximation in affine varieties. (Russian. English summary) **89i:11053**
— The multiplicative arithmetic of division algebras over number fields and the metaplecti problem. **89h:11074**
Ritter, Jürgen (*with* Sehgal, Sudarshan K.) Certain normal subgroups of units in group rings. **89c:20014**
Sehgal, Sudarshan K. *see* **Ritter, Jürgen, 89c:20014**
Tomanov, G. Sur la structure des groupes algébriques simples de type D_n définis sur des corps de nombres. (English summary) [On the structure of simple algebraic groups of ty D_n defined over number fields] **89g:11035**

20G35 Linear algebraic groups over adèles and other rings and schemes

An, Jian Bei *see* **Tang, Xiang Pu, 89a:20050** *and* **89m:20049**
Borevich, Z. I. (*with* Kolotilina, L. Yu.) Normalizers of the intermediate subgroups in the general linear group over a ring. **89d:20039**
Cao, You An Symplectic groups over a stable ring. (Chinese. English summary) **89m:2004**
Cremona, J. E. On $GL(n)$ of a Dedekind domain. **89k:20061**
Dennis, R. K. (*with* Vaserstein, L. N.) On a question of M. Newman on the number of commutators. **89k:20062**
Kolotilina, L. Yu. *see* **Borevich, Z. I., 89d:20039**
Kopeiko, V. I. Unitary and orthogonal groups over rings with involution. (Russian) **89k:20063**
Li, Fu An (*with* Li, Zun Xian) Isomorphisms of GL_3 over commutative rings. **89h:20065**
Li, Zun Xian *see* **Li, Fu An, 89h:20065**
Pashchevskiĭ, A. A. Homomorphisms of linear groups. (Russian) **89k:20064**
Tang, Xiang Pu (*with* An, Jian Bei) The structure of unitary groups over X_0-Φ surjective rings. (Chinese) **89a:20050**
— (*with* An, Jian Bei) Isomorphisms of unitary groups over X_0-Φ-surjective rings. (Chines English summary) **89m:20049**
Vaserstein, L. N. Normal subgroups of orthogonal groups over commutative rings. **89i:20071**
— *see also* **Dennis, R. K., 89k:20062**
Vavilov, N. A. The structure of split classical groups over a commutative ring. **89j:20053**
Wang, Chun Sen *see* **Wang, Yang Xian, 89h:20066**
Wang, Lu Qun (*with* Zhang, Hai Quan) Isomorphisms of linear groups over φ-surjective rings. (Chinese. English summary) **89k:20065**
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Zhang, Yong Zheng Automorphisms of projective orthogonal groups over a class of Φ-surjective rings. (Chinese) **89m:20050**

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Ellers, Erich W. (*with* Lausch, Huberta) Length theorems for the general linear group of a module over a local ring. **89m:15007**
Lausch, Huberta *see* **Ellers, Erich W., 89m:15007**
Wehrfritz, B. A. F. Unipotent normal subgroups of skew linear groups. **89k:20073**

20G40 Linear algebraic groups over finite fields

Agarwal, Ashok Kumar[1] (*with* Andrews, G. E.) On Asai's polynomials related to the twisting operators of finite classical groups. **89m:20051**
Andrews, G. E. *see* **Agarwal, Ashok Kumar**[1]**, 89m:20051**
Aschbacher, Michael Some multilinear forms with large isometry groups. **89c:20067**
Digne, François Descente du corps de base et blocs, d'après N. Kawanaka. [Descent of the ground field and blocks, following N. Kawanaka] **89a:20051**
Dye, R. H. A quick geometrical proof that $G_2(K)$ is maximal in $P\Omega_7(K)$. **89h:20067**
Glover, Henry (*with* Sjerve, Denis) The genus of $PSl_2(q)$. **89e:20087**

Grams, Gerhard Erzeugende und Relationen gewisser orthogonaler und symplektischer Gruppen über GF(2). [Generators and relations of certain orthogonal and symplectic groups over GF(2)] **89c:20068**
Jantzen, J. C. Representations of Chevalley groups in their own characteristic. **89g:20076**
(Kawanaka, Noriaki) *see* **Digne, François, 89a:20051**
Kleidman, Peter B. The maximal subgroups of the Chevalley groups $G_2(q)$ with q odd, the Ree groups ${}^2G_2(q)$, and their automorphism groups. **89j:20055**
Mĕdnikh, A. D. Maximal discrete extensions of Lanner groups. (Ukrainian. Russian summary) (Not in MR)
Meixner, Thomas Folding down classical Tits chamber systems. **89g:20077**
Nguyễn Viết Đông Modular invariants of the group $\mathrm{GL}_{2,p}$ on two sets of variables. I. (Vietnamese. English summary) **89a:20052**
— Modular invariants of the group $\mathrm{GL}_{2,p}$ on two sets of variables. II. (Vietnamese. English summary) **89m:20052**
Shoji, Toshiaki Shintani descent for exceptional groups over a finite field. **89c:20069**
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Smith, Stephen D. Geometric techniques in representation theory. **89a:20053**
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Ustimenko, V. A. Indices of the intersections of the Hecke algebras $H(\mathrm{PGL}_n(q), BW_JB)$. (Russian) **89b:20100**
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Carter, R. W. Irreducible characters of finite groups of Lie type. **89c:20018a**
Curtis, Ch. The Hecke algebra of a finite Coxeter group. **89c:20018b**
Dillon, J. F. (*with* Wertheimer, M. A.) Graphs, codes, and designs in quadrics. **89h:51012**
Dye, R. H. Twelve hexagons associated with the 10-point conic and the isomorphism $\mathrm{PSL}_2(9) \simeq A_6$. **89c:51010**
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Lusztig, G. Fourier transforms on a semisimple Lie algebra over $\mathbf{F}_q$. **89b:17015**
— Leading coefficients of character values of Hecke algebras. **89b:20087**
Mushtaq, Q. A condition for the existence of a fragment of a coset diagram. **89b:20078**
Sawada, Hideki An extension of the method of Iwahori algebra. **89e:20080**
Seitz, Gary M. Representations and maximal subgroups of finite groups of Lie type. **89d:20035**
Solomon, Ronald A characterization of PSU(3, 4). **89f:20030**
Soto-Andrade, Jorge Geometrical Gel′fand models, tensor quotients, and Weil representations. **89h:20058**
Springer, T. A. Perverse sheaves and representation theory. **89g:20073**
Stroth, G. One node extensions of buildings. **89f:51057**
Vignéras, Marie-France Représentations modulaires de GL(2, F) en caractéristique l, F corps fini de caractéristique $p \neq l$. (English summary) [Modular representations of GL(2, F) in characteristic l, where F is a finite field of characteristic $p \neq l$] **89g:20027**
Wertheimer, M. A. *see* **Dillon, J. F., 89h:51012**
Willems, Wolfgang Blocks of defect zero in finite simple groups of Lie type. **89c:20025**
Ye, Jia Chen On the first Cartan invariant of the group $\mathrm{Sp}(4, p^n)$. **89h:20020**

20G45 Applications to physics; explicit representations

Items with secondary classifications in 20G45

Billiet, Yves *see* **Masmoudi, Korchi, 89m:20058**
Braden, H. W. Anomaly coefficients: their calculation and congruences. **89i:81066**
Grecu, Eftimie Sur les groupes symplectiques. [On symplectic groups] **89c:51026**
Kac, Victor G. Lectures on infinite wedge representation and soliton equations. (Chinese summary) **89g:17015**
Masmoudi, Korchi (*with* Billiet, Yves) Quelques propriétés des représentations induites principales illustrées par les groupes ponctuels cristallographiques. (English summary) [Some properties of principal induced representations illustrated by the crystallographic point groups] **89m:20058**
Wybourne, B. G. *see* **Yang, Mei, 89a:22040**
Yang, Mei (*with* Wybourne, B. G.) New S function series and noncompact Lie groups. **89a:22040**

20G99 None of the above, but in this section

Deodhar, Vinay V. On some geometric aspects of Bruhat orderings. II. The parabolic analogue of Kazhdan-Lusztig polynomials. **89a:20054**
Stroth, G. (*with* Wong, Sia K.) Minimal parabolic systems and small representations. **89d:20040**
Tanisaki, Toshiyuki Hodge modules, equivariant K-theory and Hecke algebras. **89c:20070**
Wong, Sia K. *see* **Stroth, G., 89d:20040**

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Hesselink, Wim H. Dimension formulas related to a tame quiver. **89e:15004**
Pasini, Antonio Geometric and algebraic methods in the classification of geometries belonging to Lie diagrams. **89e:51007**
Putcha, M. S. Monoids on groups with BN-pairs. **89k:20091**
Renner, L. E. Conjugacy classes of semisimple elements, and irreducible representations of algebraic monoids. **89e:20115**
— Representations of rank one algebraic monoids. **89e:20116**
Ryan, John G. Lie algebras and pro-algebraic groups. **89c:14071**
Tits, J. Buildings and group amalgamations. **89i:20001**

20Hxx Other groups of matrices

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Costa, Douglas L. (*with* Keller, Gordon E.) On the normal subgroups of SL(2, A). **89h:20069**
Keller, Gordon E. *see* **Costa, Douglas L., 89h:20069**
Mason, A. W. Standard subgroups of $\mathrm{GL}_2(A)$. **89b:20101**
Singerman, David Universal tessellations. **89m:20053**
Stuhler, Ulrich Zur Frobeniusoperation auf der Homologie einiger arithmetischer Gruppen. [On the Frobenius action on the homology of certain arithmetic groups] **89k:20066**
Tan, De Lin On two-generator discrete groups of Möbius transformations. **89k:20067**
Wang, Lu Qun *see* **Zhang, Yong Zheng, 89c:20071**
Zhang, Yong Zheng (*with* Wang, Lu Qun) GL_2 over full rings. **89c:20071**

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Mushtaq, Q. Some remarks on coset diagrams for the modular group. **89f:11066**
— Modular group acting on real quadratic fields. **89e:11065**
Newman, Morris Unimodular commutators. **89b:15024**
Shuker, N. H. Representation of homographies by points of S_3. (Arabic summary) **89d:51035**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Bujalance, E. (*with* Etayo Gordejuela, José Javier) Large automorphism groups of hyperelliptic Klein surfaces. **89i:20072**
Bujalance, J. A. Orders of the automorphisms of bordered Klein surfaces of topological genus 1. (Spanish. English summary) **89m:20054**
Etayo Gordejuela, José Javier *see* **Bujalance, E., 89i:20072**
Maskit, Bernard Some special 2-generator Kleinian groups. **89i:20073**

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Apanasov, B. N. Thurston's bends and geometric deformations of conformal structures. **89c:32057**
Beardon, A. F. Fuchsian groups and nth roots of parabolic generators. **89m:11039**
Bestvina, Mladen Degenerations of the hyperbolic space. **89m:57011**
Bonahon, Francis (*with* Otal, Jean-Pierre) Variétés hyperboliques à géodésiques arbitrairement courtes. (English summary) [Hyperbolic manifolds with arbitrarily short geodesics] **89g:57012**
Bujalance, E. A note on the group of automorphisms of a compact Klein surface. (Spanish. English summary) **89e:20069**
Bujalance, J. A. Topological types of Klein surfaces with a maximum order automorphism. **89g:30079a**
— Corrigendum to the paper: "Topological types of Klein surfaces with a maximum order automorphism". **89g:30079b**
Conder, Marston (*with* McKay, John) A necessary condition for transitivity of a finite permutation group. **89b:20007**
— Maximal automorphism groups of symmetric Riemann surfaces with small genus. **89c:20049**
Epstein, D. B. A. (*with* Penner, R. C.) Euclidean decompositions of noncompact hyperbolic manifolds. **89a:57020**
Fine, Benjamin Fuchsian embeddings in the Bianchi groups. **89a:11048**
Gilman, Jane On the existence of elliptics in subgroups of PSL(2, **R**): a graphical picture. **89j:11037**
— Inequalities in discrete subgroups of PSL(2, **R**). **89f:11065**
Glover, Henry (*with* Sjerve, Denis) The genus of $\mathrm{PSl}_2(q)$. **89e:20087**
Ignatov, Yu. A. Rational nonfree points of the complex plane. (Russian) **89e:11022**
Inada, Tomio An elementary proof of a theorem of Margulis for Kleinian groups. **89m:30094**
Maclachlan, C. Fuchsian subgroups of the groups $\mathrm{PSL}_2(O_d)$. **89a:11049**
McKay, John *see* **Conder, Marston, 89b:20007**
Nicholls, Peter J. Atoms for measures on the limit set of a discrete group. **89g:22017**
Otal, Jean-Pierre *see* **Bonahon, Francis, 89g:57012**
Penner, R. C. *see* **Epstein, D. B. A., 89a:57020**
Riera, Gonzalo (*with* Rodriguez, Rubi) Uniformization of surfaces of genus two with automorphisms. **89m:30090**
Rodriguez, Rubi *see* **Riera, Gonzalo, 89m:30090**
Series, C. The Markoff spectrum in the Hecke group G_5. **89g:11056**
Sjerve, Denis *see* **Glover, Henry, 89e:20087**
Tits, J. Uniqueness and presentation of Kac-Moody groups over fields. **89b:17020**
Zhou, Zhan Two theorems of three-dimensional elliptic Möbius groups. (Chinese summary) **89i:51021**

20H15 Other geometric groups, including crystallographic groups [see also 51-XX, especially 51F15, and 82A60]

Alexandrova, D. A. *see* **Kotzev, J. N., 89k:20070**
Andrushevskiĭ, N. M. (*with* Shchedrin, B. M.; Malinovskiĭ, T. I.) The ambiguity problem of vector-set interpretation. **89e:20090**
Appalanarasimham, V. Magnetic variants of the space group *Pnma*. **89g:20078**
Bédard, Robert The lowest two-sided cell for an affine Weyl group. **89d:20041**
Belguith, Jamil (*with* Billiet, Yves) Étude des représentations des groupes ponctuels bicolorés cristallographiques sous-tendues par des familles de points equivalents. (English summary) [A study of representations of crystallographic two-colored point groups spanned by families of equivalent points] **89f:20050**
Bertaut, Erwin-Félix *see* **Weigel, Dominique, 89h:20071**

Billiet, Yves *see* **Belguith, Jamil, 89f:20050** *and* **Masmoudi, Korchi, 89m:20058**
Bleris, G. L. *see* **Doni, E. G.; et al.**, (Not in MR)
Bujalance, J. A. Normal subgroup of even index in an NEC group. **89j:20056**
Chuprunov, E. V. (*with* Kuntsevich, T. S.; Tarkhova, T. N.) On the symmetry of regular systems of points of n-dimensional space groups. (Russian) **89k:20068**
Doni, E. G. (*with* Fanidis, Ch.; Bleris, G. L.) The rhombohedral coincidence site lattices. (Russian summary) (Not in MR)
Du, Jie The decomposition into cells of the affine Weyl group of type $\tilde{B}_3$. **89i:20074**
— Two-sided cells of the affine Weyl group of type $\widetilde{C}_3$. **89j:20057**
Elser, Veit (*with* Sloane, N. J. A.) A highly symmetric four-dimensional quasicrystal. **89d:20042**
Fanidis, Ch. *see* **Doni, E. G.; et al.**, (Not in MR)
Fedoseeva, I. L. *see* **Koptsik, V. A.; et al., 89m:20056**
Gromadzki, Grzegorz A remark on the approximability of non-Euclidean crystallographic groups by nilpotent groups. (Russian. English summary) **89d:20043**
Heck, André A criterion for a triple (X, I, μ) to be a W-graph of a Coxeter group. **89i:20075**
Jablan, Slavik V. Groups of simple and multiple antisymmetry of layers. **89k:20069**
— Simple and multiple antisymmetry point groups G^l_{30}. (Serbo-Croatian summary) **89b:20102**
— Groups of simple and multiple band antisymmetry. (Russian) **89c:20072**
— A simplification of Bohm formula. (Serbo-Croatian summary) **89j:20058**
— Antisymmetry and presentations of G_{32} layer symmetry groups. (Serbo-Croatian summary) **89i:20076**
Janner, A. Crystallography of quasicrystals. **89m:20055**
Kopský, V. The use of subdirect and multiple subdirect products or sums in crystallography. **89h:20070**
Koptsik, V. A. (*with* Fedoseeva, I. L.; Kuzhukeev, Zh. N. M.) Eight-color space P-symmetry groups (programmed derivation). **89m:20056**
Kotzev, J. N. (*with* Alexandrova, D. A.) Full tables of colour space groups with colour-preserving translations. **89k:20070**
Kramer, Peter Space-group theory for a nonperiodic icosahedral quasilattice. **89b:20103**
Kuntsevich, T. S. *see* **Chuprunov, E. V.; et al., 89k:20068**
Kustov, E. F. (*with* Kuzhukeev, U. M.) Four-dimensional point groups and their application. (Russian) (*see* **89d:81001**)
Kuzhukeev, U. M. (*with* Kuzhukeev, Zh. N. M.) Molino functions for representations of four-dimensional point groups. (Russian) (*see* **89d:81001**)
— *see also* **Kustov, E. F.**, (**89d:81001**)
Kuzhukeev, Zh. N. M. *see* **Koptsik, V. A.; et al., 89m:20056** *and* **Kuzhukeev, U. M.**, (**89d:81001**)
Lehrer, G. I. On hyperoctahedral hyperplane complements. **89g:20079**
Levitov, L. S. (*with* Rhyner, J.) Crystallography of quasicrystals; application to icosahedral symmetry. (French summary) **89m:20057**
Malinovskiĭ, T. I. *see* **Andrushevskiĭ, N. M.; et al., 89e:20090**
Masmoudi, Korchi (*with* Billiet, Yves) Quelques propriétés des représentations induites principales illustrées par les groupes ponctuels cristallographiques. (English summary) [Some properties of principal induced representations illustrated by the crystallographic point groups] **89m:20058**
Matsumoto, Takeo (*with* Wondratschek, Hans) The noncharacteristic $\mathfrak{G}$-orbits of the plane groups $\mathfrak{G}$. **89m:20059**
Mermin, N. David *see* **Rokhsar, Daniel S.; et al., 89g:20080** *and* **89g:20081**
Nishiyama, Kyo Generators and relations for a certain Hecke algebra. **89b:20104**
Palistrant, A. F. Spatial $(p, 2)$-symmetry groups. (Russian) (*see* **89d:81001**)
Rhyner, J. *see* **Levitov, L. S., 89m:20057**
Rigault, Germano On the point group 235. (Italian. English summary) **89b:20105**
Rokhsar, Daniel S. (*with* Wright, David C.; Mermin, N. David) The two-dimensional quasicrystallographic space groups with rotational symmetries less than 23-fold. **89g:20080**
— (*with* Wright, David C.; Mermin, N. David) Scale equivalence of quasicrystallographic space groups. **89g:20081**
Shafranovskiĭ, I. I. A table of 32 forms of symmetry and the regularities contained in it. (Russian) **89k:20071**
Shchedrin, B. M. *see* **Andrushevskiĭ, N. M.; et al., 89e:20090**
Shi, Jian Yi A two-sided cell in an affine Weyl group. II. **89a:20055**
Sivardière, Jean Groupes d'espace à quatre et six couleurs. (English summary) [Four- and six-colored space groups] **89i:20077**
Sloane, N. J. A. *see* **Elser, Veit, 89d:20042**
Tarkhova, T. N. *see* **Chuprunov, E. V.; et al., 89k:20068**
Tiwari, Hemant Kumar Reflection representations of Hecke algebras of certain Weyl groups. **89k:20072**
Weigel, Dominique (*with* Bertaut, Erwin-Félix) Sur la relation entre les groupes ponctuels à quatre dimensions d'une phase modulée mono incommensurable et de sa structure de base. (English summary) [On the relation between the four-dimensional point groups of a mono-incommensurate modulated phase and its basic structure] **89h:20071**
Wondratschek, Hans *see* **Matsumoto, Takeo, 89m:20059**
Wright, David C. *see* **Rokhsar, Daniel S.; et al., 89g:20080** *and* **89g:20081**
Zamorzaev, A. M. Properties of multidimensional groups of the symmetry of similarity. (Russian) (*see* **89d:81001**)

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Aleksandrova, D. A. *see* **Kotzev, J. N.**, (**89d:81001**)
Alexander, Shlomo *see* **Olami, Z., 89m:82064**
Artem′ev, Yu. I. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Baltag, I. A. ★ Методы построения дискретных групп преобразований симметрии пространства Минковского. (Russian) [Methods for constructing discrete groups of symmetry transformations of a Minkowski space] **89j:51011**
(Belov, N. V.) *see* **Crystallography and crystal chemistry**, **89h:51021**
Burckhardt, Johann Jakob ★ Die Symmetrie der Kristalle. (German) [The symmetry of crystals] **89m:51020**
Cervini, L. (*with* Farinato, R.; Loreto, L.) The interactive computer graphics (ICG) production of the 17 two-dimensional crystallographic groups, and other related topics. (*see* **89m:00011**)
Chechin, G. M. *see* **Koptsik, V. A.**, (**89d:81001**)
Chieh, Chung Polyhedra and crystal structures. (*see* **89b:52016**)
Coxeter, H. S. M. Coloured symmetry. (*see* **89m:00011**)
— Regular and semi-regular polytopes. III. **89m:52005**
— *see also* **Escher: art and science, 89m:00011**
Dalin, V. Ya. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Deodhar, Vinay V. On some geometric aspects of Bruhat orderings. II. The parabolic analogue of Kazhdan-Lusztig polynomials. **89a:20054**
Didyk, Yu. K. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Dzyabchenko, A. V. Affine normalizers of space groups and a global search for the optimal packings of a molecular crystal. (Russian) (*see* **89d:81001**)
Elstrodt, Jürgen (*with* Grunewald, Fritz J.; Mennicke, Jens L.) Vahlen's group of Clifford matrices and spin-groups. **89b:11031**
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Farinato, R. (*with* Loreto, L.) Geometric crystallography and computing in geometry. **89i:51001**
— *see also* **Cervini, L.; et al.**, (**89m:00011**)
Grunewald, Fritz J. *see* **Elstrodt, Jürgen; et al., 89b:11031**
Haase, R. W. (*with* Kramer, L.; Kramer, Peter; Lalvani, H.) Polyhedra of three quasilattices associated with the icosahedral group. **89b:52024**
(Hargittai, I.) *see* **Crystal symmetries, 89j:00029**
(Haüy, René-Just) *see* **Burckhardt, Johann Jakob, 89m:51020**
Healey, Timothy J. A group-theoretic approach to computational bifurcation problems wit symmetry. **89k:58057**
Ho, Tin-Lun *see* **Rabson, David A.; et al., 89k:52017**
Jambu, Michel Yves Arrangements d'hyperplans. I. Les groupes de réflexions. (English summary) [Arrangements of hyperplanes. I. Reflection groups] **89f:32022**
Kaneda, Masaharu On the inverse Kazhdan-Lusztig polynomials for affine Weyl groups. **89a:20048**
Kawasaki, Toshikazu (*with* Yoshida, Masaaki) Crystallographic flat origamis. **89h:51020**
Koptsik, V. A. (*with* Chechin, G. M.) Color symmetry and representations of space groups in the theory of phase transitions. (Russian) (*see* **89d:81001**)
— *see also* **Tyukhtin, V. S.; et al., 89f:00045** *and* **Talis, A. L.**, (**89d:81001**)
Korolev, A. A. (*with* Smirnov, V. P.) Application of permutation-inversion symmetry for the study of orientation disorder in crystals. (Russian) (*see* **89d:81001**)
Kotzev, J. N. (*with* Aleksandrova, D. A.) Space color groups with a one-color lattice and their application in the analysis of phase transitions. (Russian) (*see* **89d:81001**)
Kramer, L. *see* **Haase, R. W.; et al., 89b:52024**
Kramer, Peter *see* **Haase, R. W.; et al., 89b:52024**
Lalvani, H. *see* **Haase, R. W.; et al., 89b:52024**
Larin, Yu. S. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Lee, Kyung Bai There are only finitely many infra-nilmanifolds under each nilmanifold. **89f:22018**
Loginov, B. V. (*with* Rakhmatova, Kh. R.; Yuldashev, N.) Construction of a bifurcation equation from its symmetry group (crystallographic groups). (Russian) **89k:58059**
Loreto, L. *see* **Farinato, R., 89i:51001** *and* **Cervini, L.; et al.**, (**89m:00011**)
Malikov, A. V. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Markov, Konstantin Z. On the class of symmetry groups for tensors and tensor functions. (Russian summary) **89g:15039**
Mennicke, Jens L. *see* **Elstrodt, Jürgen; et al., 89b:11031**
Mermin, N. David *see* **Rabson, David A.; et al., 89k:52017**
Mészáros, Ferenc (*with* Molnár, Emil) One-generator transformation groups in the projective plane. (Hungarian. English summary) **89i:51002**
Molnár, Emil *see* **Mészáros, Ferenc, 89i:51002**
Müller, Carsten Equidecomposability of polyhedra with reference to crystallographic groups. **89e:52015**
Nikulin, V. V. Discrete reflection groups in Lobachevsky spaces and algebraic surfaces. **89d:11032**
Olami, Z. (*with* Alexander, Shlomo) Nonsymmorphic icosahedral space groups and their realization by tetrahedrally coordinated quasicrystals. **89m:82064**
(Penrose, Roger) *see* **Escher: art and science, 89m:00011**
Petukhov, S. V. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Rabson, David A. (*with* Ho, Tin-Lun; Mermin, N. David) Aperiodic tilings with nonsymmorphic space groups $p2^j gm$. **89k:52017**
Rakhmatova, Kh. R. *see* **Loginov, B. V.; et al., 89k:58059**
Rama Mohana Rao, Kothapalli Polychromatic symmetry and physical properties. **89f:82069**
(Scholz, E.) *see* **Burckhardt, Johann Jakob, 89m:51020**
Senechal, Marjorie Tiling the torus and other space forms. **89a:52040**
Sharapov, I. P. *see* **Tyukhtin, V. S.; et al., 89f:00045**
(Shubnikov, A. V.) *see* **Crystal symmetries, 89j:00029**
Smirnov, V. P. *see* **Korolev, A. A.**, (**89d:81001**)
Stark, J. P. Twinning and symmetry. **89b:82090**
Talis, A. L. (*with* Koptsik, V. A.) Super-Fedorov symmetry of molecular-modulated crystals. (Russian) (*see* **89d:81001**)
(Teuber, Marianne) *see* **Escher: art and science, 89m:00011**
Tyukhtin, V. S. (*with* Urmantsev, Yu. A.; Larin, Yu. S.; Dalin, V. Ya.; Sharapov, I. P.; Malikov, A. V.; Koptsik, V. A.; Zamorzaev, A. M.; Didyk, Yu. K.; Petukhov, S. V.; Artem′ev, Yu. I.) ★ Система. Симметрия. Гармония. (Russian) [System. Symmetry. Harmony] **89f:00045**
(Udalova, V. V.) *see* **Crystal symmetries, 89j:00029**
Urbanik, Witold The Schur multipliers of generalized reflection groups. **89i:20026**
Urmantsev, Yu. A. *see* **Tyukhtin, V. S.; et al., 89f:00045**
(Vaĭnshteĭn, B. K.) *see* **Crystallography and crystal chemistry, 89h:51021** *and* **Crystal symmetries, 89j:00029**
Yoshida, Masaaki *see* **Kawasaki, Toshikazu, 89h:51020**
Yuldashev, N. *see* **Loginov, B. V.; et al., 89k:58059**
Zamorzaev, A. M. Color symmetry, its generalizations and geometric applications. (Russian) **89j:01056**

— *see also* **Tyukhtin, V. S.; et al., 89f:00045**
Zamorzaeva, E. A. A kind of biregular partition of a plane for similarity symmetry groups. (Russian) **89k:52019**

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  Escher, M. C. ★ M. C. Escher: art and science. **89m:00011**
Crystal symmetries ★ Crystal symmetries. **89j:00029**
Crystallography and crystal chemistry ★ Кристаллография и кристаллохимия. (Russian) [Crystallography and crystal chemistry] **89h:51021**
Escher: art and science ★ M. C. Escher: art and science. **89m:00011**
Rome ★ M. C. Escher: art and science. **89m:00011**

20H20 Other matrix groups over fields

Alperin, Roger An elementary account of Selberg's lemma. **89f:20051**
Boffa, Maurice (*with* Bryant, Roger M.) Les groupes linéaires vérifiant une identité monoïdale. (English summary) [Linear groups with a monoidal identity] **89m:20060**
Bryant, Roger M. *see* **Boffa, Maurice, 89m:20060**
Chernikov, N. S. Factorization of linear groups and of groups that have a normal system with linear factors. **89i:20078**
Konyukh, V. S. On the solvable subgroups of the group $\mathrm{GL}(q^t, P)$. (Russian. English summary) **89a:20056**
Petechuk, V. M. Triangulability of some unipotent matrix groups over division rings. (Russian. English summary) **89f:20052**
Venkataramana, T. N. On superrigidity and arithmeticity of lattices in semisimple groups over local fields of arbitrary characteristic. **89c:20073**

Items with secondary classifications in 20H20

Knüppel, Frieder Products of involutions in orthogonal groups. **89a:51033**
Lubotzky, A. A group theoretic characterization of linear groups. **89c:20066**
Makokha, A. N. A group of linear transformations that preserve a trivector of type (888; 852). **89m:51038**
Song, Ming Jie (*with* Zhang, Guang Hua) Groups of fixed-point-free rational automorphisms of the algebraic torus $T(4,2)$. (Chinese) **89h:20062**
Tenekedzhi, V. V. Matrix representations of degree 6 of automorphism groups of free groups. (Russian) **89i:20044**
Vovsi, S. M. Some radical classes of algebraic representations of groups. (Russian) **89k:20022**
Zhang, Guang Hua *see* **Song, Ming Jie, 89h:20062**

20H25 Other matrix groups over rings

Costa, Douglas L. Zero-dimensionality and the GE_2 of polynomial rings. **89b:20106**
Golubchik, I. Z. Normal subgroups of the linear and unitary groups over associative rings. (Russian) (*see* **89f:00017**)
Humphries, S. P. Free subgroups of $\mathrm{SL}(n, \mathbf{Z})$, $n > 2$, generated by transvections. **89e:20091**
Mason, A. W. Free quotients of congruence subgroups of SL_2 over a coordinate ring. **89b:20107**
Vavilov, N. A. A conjugacy theorem for subgroups of GL_n containing the group of diagonal matrices. **89f:20053**
Wehrfritz, B. A. F. On the congruence topology. **89h:20072**
— Unipotent normal subgroups of skew linear groups. **89k:20073**

Items with secondary classifications in 20H25

Abels, Herbert ★ Finite presentability of S-arithmetic groups. Compact presentability of solvable groups. **89b:22017**
Bartolone, C. (*with* Spera, A. G.) Tits's theorem for the group $\mathrm{PGL}_2(L)$, L a not necessarily commutative local ring. **89b:20012**
Borevich, Z. I. (*with* Kolotilina, L. Yu.) Normalizers of the intermediate subgroups in the general linear group over a ring. **89d:20039**
Chen, Yu On the representations of skew linear groups. **89m:20013**
Ellers, Erich W. (*with* Frank, Rolfdieter) Products of quasireflections and transvections over local rings. **89h:51008**
Frank, Rolfdieter *see* **Ellers, Erich W., 89h:51008**
Gerasimov, V. N. The group of units of a free product of rings. **89c:16006**
Kolotilina, L. Yu. *see* **Borevich, Z. I., 89d:20039**
Mason, A. W. Standard subgroups of $\mathrm{GL}_2(A)$. **89b:20101**
Shirvani, M. (*with* Wehrfritz, B. A. F.) ★ Skew linear groups. **89h:20001**
Spera, A. G. *see* **Bartolone, C., 89b:20012**
Vaserstein, L. N. Normal subgroups of classical groups over Banach algebras. **89f:46105**
Vavilov, N. A. The structure of split classical groups over a commutative ring. **89j:20053**
Wang, Lu Qun *see* **Zhang, Yong Zheng, 89c:20071**
Wehrfritz, B. A. F. *see* **Shirvani, M., 89h:20001**
Yakovlev, B. V. Lattice definability of matrix and certain other groups. (Russian) **89k:20043**
Zhang, Yong Zheng (*with* Wang, Lu Qun) GL_2 over full rings. **89c:20071**

20H30 Other matrix groups over finite fields

Items with secondary classifications in 20H30

Knoflíček, František On translation planes and quasifields of order 16. **89a:51021**
Zhai, Qi Bin A class of complete solvable groups of finite order. (Chinese. English summary) **89d:20020**

20H99 None of the above, but in this section

Items with secondary classifications in 20H99

Orlik, Peter (*with* Solomon, Louis) The Hessian map in the invariant theory of reflection groups. **89i:32024**
— (*with* Solomon, Louis) Discriminants in the invariant theory of reflection groups. **89i:32025**
Solomon, Louis *see* **Orlik, Peter, 89i:32024** *and* **89i:32025**

20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Bieri, Robert (*with* Neumann, Walter D.; Strebel, Ralph) A geometric invariant of discrete groups. **89b:20108**
Brown, Ronald (*with* Ellis, Graham J.) Hopf formulae for the higher homology of a group. **89g:20082**
Chapman, G. R. On the Poincaré series of $H^*(\mathrm{GL}(2, 2^n), \mathbf{Z}/2)$. **89b:20109**
Collins, Donald J. The automorphism group of a free product of finite groups. **89e:20092**
Ellis, Graham J. *see* **Brown, Ronald, 89g:20082**
Gedrich, T. V. (*with* Gruenberg, K. W.) Complete cohomological functors on groups. **89h:20073**
Geoghegan, Ross The shape of a group—connections between shape theory and the homology of groups. **89a:20057**
Gruenberg, K. W. *see* **Gedrich, T. V., 89h:20073**
Hawkes, Trevor (*with* Isaacs, I. M.) On the poset of p-subgroups of a p-solvable group. **89g:20083**
Isaacs, I. M. *see* **Hawkes, Trevor, 89g:20083**
Kropholler, P. H. (*with* Roller, M. A.) Splittings of Poincaré duality groups. **89c:20074**
Kuz'min, Yu. V. Homology theory of free abelianized extensions. **89k:20074**
— On the differentials of a spectral sequence of a group extension. **89e:20093**
Neumann, Walter D. *see* **Bieri, Robert; et al., 89b:20108**
Passi, I. B. S. (*with* Sucheta; Tahara, Ken-Ichi) Dimension subgroups and Schur multiplicator. III. **89b:20110**
Robinson, Derek J. S. Vanishing theorems for cohomology of locally nilpotent groups. **89a:20058b**
— Cohomology of locally nilpotent groups. **89a:20058a**
Rodicio, Antonio G. On the homology of free P-local groups. (Spanish. English summary) **89f:20054**
Roller, M. A. *see* **Kropholler, P. H., 89c:20074**
Squier, Craig C. Word problems and a homological finiteness condition for monoids. **89a:20059**
Strebel, Ralph *see* **Bieri, Robert; et al., 89b:20108**
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Sumiyama, Takao On cohomology of groups in finite local rings. **89e:20094**
Tahara, Ken-Ichi *see* **Passi, I. B. S.; et al., 89b:20110**

Items with secondary classifications in 20J05

Anick, David J. Inert sets and the Lie algebra associated to a group. **89d:20031**
Arlettaz, Dominique On the algebraic K-theory of $\mathbf{Z}$. **89g:18019**
Barja Pérez, Javier ★ Sucesiones exactas de ocho términos en homología de grupos. $H_3(G, \mathbf{Z}_q)$. (Spanish) [Eight-term exact sequences in group homology: $H_3(G, \mathbf{Z}_q)$] **89j:18013**
Baumslag, Gilbert (*with* Stammbach, U.; Strebel, Ralph) The free metabelian group of rank two contains continuously many nonisomorphic subgroups. **89e:20066**
Björner, Anders Some Cohen-Macaulay complexes arising in group theory. **89g:05036**
Carlson, Jon F. Varieties for modules. **89b:20032**
Carrasco, P. (*with* Cegarra, A. M.; Garzon, A. R.) La suite fondamentale de Hochschild-Serre pour la cohomologie non abélienne des groupes. II. (English summary) [The Hochschild-Serre fundamental exact sequence in nonabelian group cohomology. II] **89g:18021**
Cegarra, A. M. *see* **Carrasco, P.; et al., 89g:18021**
Charney, Ruth A generalization of a theorem of Vogtmann. **89h:18010**
Ch'ên, Yung Ch'iu Remarks on free Bieberbach groups. **89e:20056**
Garzon, A. R. *see* **Carrasco, P.; et al., 89g:18021**
Gerstenhaber, Murray (*with* Schack, Samuel D.) Sometimes H^1 is H^2 and discrete groups deform. **89g:16034**
Grivel, Pierre-Paul Extensions de modules et cohomologie des groupes. [Module extensions and group cohomology] **89h:18016**
Habegger, Nathan Hypercohomology varieties for complexes of modules, the realizability criterion, and equivalent formulations of a conjecture of Carlsson. **89b:20111**
Lafuente, Julio Chief factors of finite groups with order a multiple of p. **89g:20024**
Lannes, Jean Sur la cohomologie modulo p des p-groupes abéliens élémentaires. [The cohomology modulo p of elementary abelian p-groups] **89e:55037**
Livingston, Charles Indecomposable surfaces in 4-space. **89g:57030**
Mihalik, Michael L. Semistability at ∞, ∞-ended groups and group cohomology. **89b:20063**
Oliver, Robert ★ Whitehead groups of finite groups. **89h:18014**
Rosset, Shmuel An invariant of free central extensions. **89d:12005**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 89g:16034**
Smillie, John (*with* Vogtmann, Karen) Automorphisms of graphs, p-subgroups of $\mathrm{Out}(F_n)$ and the Euler characteristic of $\mathrm{Out}(F_n)$. **89b:20079**
Smith, Stephen D. Constructing representations from group geometries. **89k:20019**
Stammbach, U. *see* **Baumslag, Gilbert; et al., 89e:20066**
Strebel, Ralph *see* **Baumslag, Gilbert; et al., 89e:20066**
Tschantz, Steven T. A finitely presented HNN-extension example: non-finitely generated groups, and an application of small cancellation theory. **89h:20046**
Vogtmann, Karen *see* **Smillie, John, 89b:20079**
Würfel, Tilmann A note on the cup product for pro-p groups. **89c:20045**

Yoshida, Tomoyuki Fisher's inequality for block designs with finite group action. **89b:05044**

20J06 Cohomology of finite groups

Barnes, Donald W. On Carlson's spectral sequence. **89c:20075**
Cárdenas, Humberto (*with* Lluis, Emilio) On the Chern classes of representations of the symmetric groups. **89k:20075**
Carlson, Jon F. On exponents of homology and cohomology of finite groups. **89c:20076**
— Exponents of modules and maps. **89k:20076**
Habegger, Nathan Hypercohomology varieties for complexes of modules, the realizability criterion, and equivalent formulations of a conjecture of Carlsson. **89b:20111**
Linnell, P. A. (*with* Stammbach, U.) On the cohomology of p-constrained groups. **89f:20055**
— (*with* Stammbach, U.) The cohomology of p-constrained groups. **89a:20060**
Lluis, Emilio *see* **Cárdenas, Humberto, 89k:20075**
Nguyễn Xuân Tuyến Calculation of the homology algebras of a class of groups. (Russian. English and Georgian summaries) **89f:20056**
Piveteau, Jean-Marc The Euler class of orthogonal rational representations of finite groups. **89k:20077**
Rusin, David J. The cohomology of the groups of order 32. **89k:20078**
Stammbach, U. *see* **Linnell, P. A., 89a:20060** *and* **89f:20055**
Webb, P. J. Subgroup complexes. **89f:20057**
Yagita, Nobuaki Frobenius operations and cohomology of $\mathrm{GL}_3(\mathbf{F}_q)$. **89c:20077**

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Alperin, J. L. Cohomology is representation theory. **89b:20031**
Carlson, Jon F. Varieties for modules. **89b:20032**
— Products and projective resolutions. **89d:20010**
— (*with* Jones, Alfredo) Wild categories of periodic modules. **89g:20021**
Friedlander, Eric M. Cohomology of irreducible modules with large weights. **89c:20064**
— Multiplicative stability for the cohomology of finite Chevalley groups. **89b:20092**
Jones, Alfredo *see* **Carlson, Jon F., 89g:20021**
Picken, R. F. Global anomalies and homotopy group cocycles. **89j:81112**
Priddy, Stewart Recent progress in stable splittings. **89f:55017**
Schmid, Peter Extensions of lattices over p-solvable groups. **89g:20008**
Singer, William M. On the Λ-algebra and the homology of symmetric groups. **89c:55020**
Symonds, Peter Cohomological methods in integral representation theory. **89m:20010**

20J10 Groups arising as cohomology groups

Items with secondary classifications in 20J10

Habegger, Nathan Hypercohomology varieties for complexes of modules, the realizability criterion, and equivalent formulations of a conjecture of Carlsson. **89b:20111**
Kuz′min, Yu. V. Homology theory of free abelianized extensions. **89k:20074**
Ladra González, Manuel (*with* R-Grandjeán L-Valcárcel, A.) An eight term exact sequence relative to a variety. **89a:20029**
R-Grandjeán L-Valcárcel, A. *see* **Ladra González, Manuel, 89a:20029**
Ulbrich, K.-H. On cohomology of graded group categories. **89b:18016**

20J15 Category of groups

Items with secondary classifications in 20J15

Boja, Nicolae *see* **Dăianu, Dan, 89k:18009b**
Dăianu, Dan Projective limits in the a-category of groups. **89k:18009a**
— (*with* Boja, Nicolae) Isotone correspondences. **89k:18009b**

20J99 None of the above, but in this section

García-Rodeja Fernández, Eduardo (*with* Rodicio, Antonio G.) An exact sequence of Q-groups. (Spanish. English summary) **89h:20074**
Rodicio, Antonio G. *see* **García-Rodeja Fernández, Eduardo, 89h:20074**

Items with secondary classifications in 20J99

Guin, Daniel Cohomologie et homologie non abéliennes des groupes. [Nonabelian group cohomology and homology] **89b:18017**
Heath, Philip R. (*with* Parmenter, M. M.) Lifting colimits in various categories. **89k:18003**
Parmenter, M. M. *see* **Heath, Philip R., 89k:18003**

20Kxx Abelian groups

20K01 Finite abelian groups

Arnold, David M. (*with* Richman, Fred) Subgroups of finite direct sums of valuated cyclic groups. **89b:20112**
Corrádi, Keresztély (*with* Szabó, Sándor) Some special cases of Keller's conjecture. **89b:20113**
Grover, V. K. Splittings of abelian groups by integers. **89b:20114**
Hoffman, Michael E. An invariant of finite abelian groups. **89g:20084**
Löwe, Stefan Groups, strongly regular graphs, and quotient sets. **89h:20075**
Richman, Fred *see* **Arnold, David M., 89b:20112**
Szabó, Sándor Some problems on splittings of groups. II. **89d:20044**
— *see also* **Corrádi, Keresztély, 89b:20113**

Items with secondary classifications in 20K01

Anderson, Marlow (*with* Harary, Frank) Achievement and avoidance games for generating abelian groups. **89a:90189**
Cohen, Gérard Denis Un aperçu sur les codes corrections d'erreurs. (Spanish summary) [A brief sketch of error-correcting codes] **89k:94057**
Endres, Norbert Idempotente Quasigruppen und Gruppoide. [Idempotent quasigroups a groupoids] **89c:20102**
Fan, Yun A characterization of elementary abelian p-groups by counting subgroups. (Chinese) **89h:20030**
Guo, Wen Bin *see* **Jing, Feng Jie, 89j:20030**
Harary, Frank *see* **Anderson, Marlow, 89a:90189**
Hekrdla, Josef Index transforms for N-dimensional DFTs. **89h:65230**
Ivić, Aleksandar The general divisor problem. **89a:11095**
Jing, Feng Jie (*with* Guo, Wen Bin) Finite abelian groups with automorphism groups of order 6 or 8. (Chinese. English summary) **89j:20030**
Krätzel, Ekkehard On the average number of direct factors of a finite abelian group. **89m:11091**
Lander, Eric S. Restrictions upon multipliers of an abelian difference set. **89e:05043**
Lazo Cortés, Manuel (*with* Morgado Morales, Èberto R.) The Sylow p-groups of the automorphism group of a finite homocyclic p-group of rank 2. (Spanish. English summary) **89g:20040**
Morgado Morales, Èberto R. *see* **Lazo Cortés, Manuel, 89g:20040**
Olson, John E. A problem of Erdős on abelian groups. **89f:20034**
Yu, Xian Jun A note on a theorem of Szász. (Chinese) **89h:20038**

20K05 Finitely generated groups

Items with secondary classifications in 20K05

Arnold, David M. (*with* Richman, Fred) Subgroups of finite direct sums of valuated cycl groups. **89b:20112**
Lettl, Günter Subsemigroups of finitely generated groups with divisor-theory. **89m:20078**
Richman, Fred *see* **Arnold, David M., 89b:20112**

20K10 Torsion groups, primary groups and generalized primary groups

Benabdallah, Khalid (*with* Călugăreanu, Grigore) Abelian groups with continuous lattice subgroups. **89g:20085**
Brunker, Don (*with* Higgs, Denis) Primary decomposition for Σ-groups. **89k:20079**
Călugăreanu, Grigore *see* **Benabdallah, Khalid, 89g:20085**
Cutler, Doyle The number of separable p-groups of cardinality $\aleph_1$ having isometric socles. **89g:20086**
Eklof, Paul C. (*with* Huber, Martin) On ω-filtered vector spaces and their application to abelian p-groups. II. **89d:20045**
Higgs, Denis *see* **Brunker, Don, 89k:20079**
Huber, Martin *see* **Eklof, Paul C., 89d:20045**
Keef, Patrick On the Tor functor and some classes of abelian groups. **89b:20115**
Ling, Jin Hua A direct proof for countable abelian p-groups with nice composition series be simply presented. (Chinese summary) **89m:20061**
Ullery, William Modular group algebras of N-groups. **89g:20087**

Items with secondary classifications in 20K10

Dugas, Manfred On the Jacobson radical of some endomorphism rings. **89c:20079**
Khan, M. Zubair On h-purity in QTAG-modules. **89m:16044**
Rychkov, S. V. Indecomposable abelian p-groups that are almost direct sums of cyclic groups. **89h:20080**

20K12 Ulm sequences

Items with secondary classifications in 20K12

Ursul, M. I. An imbedding of a topological group as a quasicomponent in another group. (Russian) **89h:22005**

20K15 Torsion free groups, finite rank

Arnold, David M. (*with* Vinsonhaler, C.) Invariants for a class of torsion-free abelian groups. **89h:20076**
Delgado, Juan Ramón (*with* Martín, J.) The isomorphism problem for torsion-free group of rank three. (Spanish. English summary) (*see* **89d:00009**)
Fomin, A. A. Invariants and duality in some classes of torsion-free abelian groups of finite rank. (Russian) **89i:20079**
Giovannitti, A. J. Projective and injective Butler groups. **89i:20080**
Kozhukhov, S. F. Torsion-free abelian groups of finite rank without nilpotent endomorphisms. **89h:20077**
— Finite automorphism groups of abelian torsion-free groups of finite rank. **89h:20078**
Krylov, P. A. A class of abelian groups with hereditary endomorphism rings. (Russian) **89b:20116**
Lady, E. L. The integral closure of Z in the Grothendieck ring for quasi-isomorphism class of finite rank torsion free modules over a Dedekind domain. **89b:20117**
Martín, J. *see* **Delgado, Juan Ramón, (89d:00009)**
Vinsonhaler, C. (*with* Wickless, W.) G-injective groups. **89b:20118**
— *see also* **Arnold, David M., 89h:20076**
Wickless, W. *see* **Vinsonhaler, C., 89b:20118**

Items with secondary classifications in 20K15

Arnold, David M. (*with* Richman, Fred) Subgroups of finite direct sums of valuated cyclic groups. **89b:20112**
Goeters, H. P. Generating cotorsion theories and injective classes. **89e:20097**
Hausen, Jutta Modules with the summand intersection property. **89j:16039**
Kirku, P. I. The number of locally compact group topologies of torsion-free divisible abeli groups. (Russian) **89k:22004**
Nongxa, Loyiso G. $*$-pure subgroups of completely decomposable abelian groups. **89b:20119**

Parmenter, M. M. On the automorphisms of the group ring of a finitely generated free abelian group. **89a:16014**
Richman, Fred *see* **Arnold, David M., 89b:20112**

20K20 Torsion free groups, infinite rank

Abe, Yoshihiro *see* **Eda, Katsuya, 89g:20088**
Albrecht, Ulrich Faithful abelian groups of infinite rank. **89f:20058**
Chekhlov, A. R. Quasipure injective torsion-free abelian groups. **89m:20062**
Dugas, Manfred On some subgroups of infinite rank Butler groups. **89h:20079**
Eda, Katsuya (*with* Abe, Yoshihiro) Compact cardinals and abelian groups. **89g:20088**
Göbel, Rüdiger (*with* Goldsmith, B.) Essentially indecomposable modules which are almost free. **89f:20059**
Goldsmith, B. *see* **Göbel, Rüdiger, 89f:20059**
Mekler, Alan H. The structure of groups which are almost the direct sum of countable abelian groups. **89e:20095**
Metelli, Claudia Subgroups of almost separable torsionfree abelian groups. **89i:20081**

Items with secondary classifications in 20K20

Bastos, Gervasio G. (*with* Viswanathan, T. M.) Torsion-free abelian groups, valuations and twisted group rings. **89h:13005**
Dugas, Manfred (*with* Irwin, John M.; Khabbaz, S. A.) Countable rings as endomorphism rings. **89h:20081**
Irwin, John M. (*with* Khabbaz, S. A.) Submodules of direct products. **89b:13019**
— *see also* **Dugas, Manfred; et al., 89h:20081**
Khabbaz, S. A. *see* **Irwin, John M., 89b:13019** *and* **Dugas, Manfred; et al., 89h:20081**
Kirku, P. I. The number of locally compact group topologies of torsion-free divisible abelian groups. (Russian) **89k:22004**
Nongxa, Loyiso G. $*$-pure subgroups of completely decomposable abelian groups. **89b:20119**
O'Neill, John D. A theorem on direct products of slender modules. **89b:16038**
Piva, Giorgio On endomorphism algebras over admissible Dedekind domains. **89m:20064**
Romano, Daniel A. Construction of free abelian groups. (Serbo-Croatian summary) **89g:03091**
Viswanathan, T. M. *see* **Bastos, Gervasio G., 89h:13005**

20K21 Mixed groups

Hill, Paul (*with* Megibben, Charles) Generalizations of the stacked bases theorem. **89g:20089**
Lane, Mark (*with* Megibben, Charles) Balanced projectives and axiom 3. **89f:20060**
May, Warren Modular group algebras of simply presented abelian groups. **89k:20080**
Megibben, Charles *see* **Lane, Mark, 89f:20060** *and* **Hill, Paul, 89g:20089**
Myshkin, V. I. Component-wise splittable mixed abelian groups. (Russian) **89k:20081**

Items with secondary classifications in 20K21

Borm, G. F. (*with* Schikhof, W. H.; de Vries, Hendrik) p-adic representative functions on abelian groups. **89g:20011**
Göbel, Rüdiger New aspects for two classical theorems on torsion splitting. **89h:13019**
Schikhof, W. H. *see* **Borm, G. F.; et al., 89g:20011**
de Vries, Hendrik *see* **Borm, G. F.; et al., 89g:20011**

20K25 Direct sums, direct products, etc.

Maksimov, S. Yu. Direct decompositions of abelian groups that do not have isomorphic near-refinements. **89c:20078**
Rychkov, S. V. Indecomposable abelian p-groups that are almost direct sums of cyclic groups. **89h:20080**
Zaitsev, D. I. Direct decompositions of infinite abelian groups with operators. **89j:20059**

Items with secondary classifications in 20K25

Abe, Yoshihiro *see* **Eda, Katsuya, 89g:20088**
Brunker, Don (*with* Higgs, Denis) Primary decomposition for Σ-groups. **89k:20079**
Corrádi, Keresztély (*with* Szabó, Sándor) Keller's conjecture for certain p-groups. **89m:20022**
Eda, Katsuya (*with* Abe, Yoshihiro) Compact cardinals and abelian groups. **89g:20088**
Higgs, Denis *see* **Brunker, Don, 89k:20079**
Mekler, Alan H. The structure of groups which are almost the direct sum of countable abelian groups. **89e:20095**
O'Neill, John D. A theorem on direct products of slender modules. **89b:16038**
Szabó, Sándor *see* **Corrádi, Keresztély, 89m:20022**

20K26 Indecomposable groups

Items with secondary classifications in 20K26

Rychkov, S. V. Indecomposable abelian p-groups that are almost direct sums of cyclic groups. **89h:20080**

20K27 Subgroups

Aghdam, A. M. Square subgroup of an abelian group. **89f:20061**
Nongxa, Loyiso G. $*$-pure subgroups of completely decomposable abelian groups. **89b:20119**
Richman, Fred Computers, trees and abelian groups. **89g:20090**

Items with secondary classifications in 20K27

Metelli, Claudia Subgroups of almost separable torsionfree abelian groups. **89i:20081**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Albrecht, Ulrich Abelian groups with self-injective endomorphism rings. **89a:20061**
— The structure of generalized rank one groups. **89m:20063**
Dugas, Manfred On the Jacobson radical of some endomorphism rings. **89c:20079**
— (*with* Irwin, John M.; Khabbaz, S. A.) Countable rings as endomorphism rings. **89h:20081**
Eklof, Paul C. (*with* Mekler, Alan H.; Shelah, Saharon) On strongly nonreflexive groups. **89c:20080**
Irwin, John M. *see* **Dugas, Manfred; et al., 89h:20081**
Khabbaz, S. A. *see* **Dugas, Manfred; et al., 89h:20081**
Krylov, P. A. Endogenerating abelian groups. (Russian) **89b:20120**
Mekler, Alan H. *see* **Eklof, Paul C.; et al., 89c:20080**
Piva, Giorgio On endomorphism algebras over admissible Dedekind domains. **89m:20064**
Shelah, Saharon *see* **Eklof, Paul C.; et al., 89c:20080**
Szabó, Edit Über isomorphe Paare endlicher abelscher Gruppen. [On isomorphic pairs of finite abelian groups] **89m:20065**

Items with secondary classifications in 20K30

Albrecht, Ulrich Faithful abelian groups of infinite rank. **89f:20058**
Faticoni, Theodore G. On the lattice of right ideals of the endomorphism ring of an abelian group. **89k:20082**
Göbel, Rüdiger (*with* Goldsmith, B.) Essentially indecomposable modules which are almost free. **89f:20059**
Goldsmith, B. *see* **Göbel, Rüdiger, 89f:20059**
Krylov, P. A. A class of abelian groups with hereditary endomorphism rings. (Russian) **89b:20116**
Orsatti, Adalberto (*with* Rodinò, Nicola) Isomorphisms between finite powers of abelian groups. (Italian. English summary) **89c:20081**
Rodinò, Nicola *see* **Orsatti, Adalberto, 89c:20081**

20K35 Extensions

Fuchs, László[1] On the freeness of certain abelian groups. **89e:20096**

Items with secondary classifications in 20K35

Dikranjan, Dikran Noncompleteness measure of convergence abelian groups and completeness of the coarse abelian groups. **89f:54006**

20K40 Homological and categorical methods

Albrecht, Ulrich (*with* Goeters, H. P.) A dual to Baer's lemma. **89m:20066**
Faticoni, Theodore G. On the lattice of right ideals of the endomorphism ring of an abelian group. **89k:20082**
Goeters, H. P. Generating cotorsion theories and injective classes. **89e:20097**
— *see also* **Albrecht, Ulrich, 89m:20066**
Samsonova, I. V. Quasi-M-projective abelian groups. **89f:20062**

Items with secondary classifications in 20K40

Fuchs, László[1] On the freeness of certain abelian groups. **89e:20096**
Keef, Patrick On the Tor functor and some classes of abelian groups. **89b:20115**

20K45 Topological methods

Orsatti, Adalberto (*with* Rodinò, Nicola) Isomorphisms between finite powers of abelian groups. (Italian. English summary) **89c:20081**
Rodinò, Nicola *see* **Orsatti, Adalberto, 89c:20081**

Items with secondary classifications in 20K45

Dikranjan, Dikran (*with* Frič, Roman; Zanolin, Fabio) On convergence groups with dense coarse subgroups. **89c:22009**
Eklof, Paul C. (*with* Huber, Martin) On ω-filtered vector spaces and their application to abelian p-groups. II. **89d:20045**
Frič, Roman *see* **Dikranjan, Dikran; et al., 89c:22009**
Huber, Martin *see* **Eklof, Paul C., 89d:20045**
Remus, Dieter On the number of Hausdorff group topologies on infinite abelian and free groups. **89c:22003**
Simon, Petr (*with* Zanolin, Fabio) A coarse convergence group need not be precompact. **89c:22010**
Ursul, M. I. An imbedding of a topological group as a quasicomponent in another group. (Russian) **89h:22005**
Zanolin, Fabio *see* **Dikranjan, Dikran; et al., 89c:22009** *and* **Simon, Petr, 89c:22010**

20K99 None of the above, but in this section

Bano, R. (*with* Khan, M. Zubair) On h-divisible QTAG-module. **89j:20060**
Brunker, Don (*with* Higgs, Denis) Constructions of Σ-groups, relatively free Σ-groups. **89i:20082**
Eda, Katsuya A characterization of $\aleph_1$-free abelian groups and its application to the Chase radical. **89c:20082**
Feigelstock, Shalom ★ Additive groups of rings. Vol. II. **89j:20061**
— (*with* Raphael, R.) Fissible and p-fissible rings. **89b:20121**
Higgs, Denis *see* **Brunker, Don, 89i:20082**
Hule, H. (*with* Pilz, Günter F.) Equations over abelian groups. **89f:20063**
— (*with* Pilz, Günter F.) Equations over varieties of abelian groups. **89k:20083**
Khan, M. Zubair *see* **Bano, R., 89j:20060**
Martin, Gary A. A class of abelian groups arising from an analysis of a proof. **89e:20098**
Molokov, A. V. On almost simple abelian groups. (Russian) **89f:20064**
Pilz, Günter F. *see* **Hule, H., 89f:20063** *and* **89k:20083**
Raphael, R. *see* **Feigelstock, Shalom, 89b:20121**

Remus, Dieter A characterization of all abelian groups whose lattice of precompact group topologies represents a projective geometry. **89c:20083**

Items with secondary classifications in 20K99

van Dalen, D. (*with* de Vries, F. J.) Intuitionistic free abelian groups. **89c:03096**
Hilton, Peter On groups of pseudo-integers. **89i:11015**
Hirano, Yasuyuki Some results on additive groups of rings. (*see* **89k:16001**)
Hofmann, Karl Heinrich (*with* Morris, Sidney A.) Correction: "Free compact groups. I. Free compact abelian groups" [Topology Appl. 23 (1986), no. 1, 41–64; MR 88a:22011]. **89a:22008**
Meng, Dao Ji BCI-algebras and abelian groups. **89a:06036**
Morris, Sidney A. *see* **Hofmann, Karl Heinrich, 89a:22008**
Romano, Daniel A. Constructive aspects of abelian groups. **89h:03109**
de Vries, F. J. *see* **van Dalen, D., 89c:03096**

20Lxx Groupoids (small categories in which all morphisms are isomorphisms)

20L05 General theory

Items with secondary classifications in 20L05

Bourn, Dominique The shift functor and the comprehensive factorization for internal groupoids. (French summary) **89a:18008**
Hion, Jaak Polygons over categories and groupoids. **89a:18004**

20L10 Connections with group theory

Crowell, R. H. (*with* Smythe, N.) Congruences and geometric amalgamations of groupoids. **89e:20099**
Smythe, N. *see* **Crowell, R. H., 89e:20099**

Items with secondary classifications in 20L10

Taylor, John[1] Quotients of groupoids by an action of a group. **89c:18006**

20L13 Mappings of groupoids

Items with secondary classifications in 20L13

Golodets, V. Ya. (*with* Sinel′shchikov, S. D.) Automorphisms of ergodic groupoids, and semidirect products. (Russian) **89d:22004**
Heath, Philip R. (*with* Parmenter, M. M.) Lifting colimits in various categories. **89k:18003**
Parmenter, M. M. *see* **Heath, Philip R., 89k:18003**
Sinel′shchikov, S. D. *see* **Golodets, V. Ya., 89d:22004**

20L15 Connections with topology

Brown, Ronald A nonabelian tensor product of groups. **89a:20062**

Items with secondary classifications in 20L15

Ashley, N. Simplicial T-complexes and crossed complexes: a nonabelian version of a theorem of Dold and Kan. **89k:55028**
(Brown, Ronald) *see* **Ashley, N., 89k:55028**
Kamps, K. H. Note on the gluing theorem for groupoids and van Kampen's theorem. (French summary) **89c:55012**
Mackenzie, Kirill ★ Lie groupoids and Lie algebroids in differential geometry. **89g:58225**

20L17 Connections with category theory

Bullejos, Manuel Generalized crossed groupoids. (Spanish. English summary) (*see* **89d:00009**)

Items with secondary classifications in 20L17

Armstrong, Sheena Structure of concordant semigroups. **89k:20088**
Moerdijk, Ieke Toposes and groupoids. **89m:18003**
Richter, Günther On Noetherian subsemigroup rings with several objects. **89b:18008**

20L99 None of the above, but in this section

Items with secondary classifications in 20L99

Kepka, T. (*with* Němec, P.; Niemenmaa, Markku) On representable pairs. **89m:20074**
Mackenzie, Kirill Integrability obstructions for extensions of Lie algebroids. (French summary) **89k:58313**
Němec, P. *see* **Kepka, T.; et al., 89m:20074**
Niemenmaa, Markku *see* **Kepka, T.; et al., 89m:20074**
Schmidt, Klaus D. Some solved and unsolved problems concerning orbit equivalence of countable group actions. **89f:28043**

20Mxx Semigroups

Items with secondary classifications in 20Mxx

(Jürgensen, H.) *see* **Semigroups, theory and applications, 89c:20005**
(Lallement, Gérard J.) *see* **Semigroups, theory and applications, 89c:20005**
(Petrich, Mario) *see* **Reilly, N. R., 89f:20001**
Reilly, N. R. Update on the problems in: *Inverse semigroups* [Wiley, New York, 1984; MR 85k:20001] by M. Petrich. **89f:20001**
(Weinert, Hanns Joachim) *see* **Semigroups, theory and applications, 89c:20005**
(Yoshida, Reikichi) *see* **Proceedings: Symposium on Semigroups, 89a:20001**

Items listed otherwise than by author

Conference:
  Semigroups ★ Semigroups, theory and applications. **89c:20005**
Kyoto ★ Proceedings of the 11th Symposium on Semigroups. **89a:20001**
Lecture Notes in Mathematics ★ Semigroups, theory and applications. **89c:20005**
Oberwolfach ★ Semigroups, theory and applications. **89c:20005**
Proceedings:
  Symposium on Semigroups ★ Proceedings of the 11th Symposium on Semigroups. **89a:20001**
Semigroups, theory and applications ★ Semigroups, theory and applications. **89c:20005**
Symposium:
  Semigroups ★ Proceedings of the 11th Symposium on Semigroups. **89a:20001**

20M05 Free semigroups, generators and relations, word problem

Culik, Karel, II (*with* Karhumäki, Juhani) Systems of equations over a finitely generated free monoid having an effectively findable equivalent finite subsystem. **89k:20084**
Fountain, John B. Free right h-adequate semigroups. **89h:20082**
Grigorchuk, R. I. Semigroups with cancellations of degree growth. **89f:20065**
Jones, Peter R. Basis properties for semigroups. **89f:20066**
Kadourek, Jiří On the word problem for free bands of groups and for free objects in some other varieties of completely regular semigroups. **89k:20085**
Karhumäki, Juhani *see* **Culik, Karel, II, 89k:20084**
Lallement, Gérard J. Some algorithms for semigroups and monoids presented by a single relation. **89i:20083**
Margolis, S. W. (*with* Pin, J.-E.) Expansions, free inverse semigroups, and Schützenberger product. **89j:20066b**
Mel′nichuk, I. L. Solvability of the problems of equality and divisibility in varieties of semigroups. (Russian) **89b:20122**
Perel′man, M. A. Identities in semigroups generated by amalgams. (Russian) **89b:20123**
Pin, J.-E. *see* **Margolis, S. W., 89j:20066b**
Pollák, G. Infima in the power set of free semigroups. **89g:20091**
Reilly, N. R. Free objects in certain varieties of semigroups. **89g:20092**
Reis, C. M. When are Rees congruences principal? **89k:20086**
Rindone, Giuseppina Construction d'une famille de codes associés à certains groupes finis. (English summary) [Construction of a family of codes associated with certain finite groups] **89h:20083**
Sasaki, Morio (*with* Tamura, Takayuki) Boundly factorizable $\mathscr{S}$-indecomposable semigroups generated by two elements. **89b:20124**
Spehner, Jean-Claude Les systèmes entiers d'équations sur un alphabet de 3 variables. (English summary) [Entire systems of equations over a 3-variable alphabet] **89i:20084**
Tamura, Takayuki *see* **Sasaki, Morio, 89b:20124**
Trotter, P. G. Free generators in relatively free completely regular semigroups. **89k:20087**
Ustyan, A. E. On the problem of left divisibility for finitely presented semigroups of a certain class. (Russian) **89b:20125**

Items with secondary classifications in 20M05

Azevedo, Assis Operations preserving homomorphisms on the class of finite semigroups DS (Portuguese) **89e:20100**
Benninghofen, Benjamin (*with* Kemmerich, S.; Richter, Michael M.) ★ Systems of reductions. **89a:68132**
Bokut′, L. A. (*with* Kukin, G. P.) Undecidable algorithmic problems for semigroups, group and rings. (Russian) **89a:20036**
Demazure, M. Le théorème de complexité de Mayr et Meyer. [The Mayr-Meyer complexity theorem] **89f:12002**
Howie, John M. (*with* Robertson, Edmund F.; Schein, Boris M.) A combinatorial property of finite full transformation semigroups. **89i:20105**
Jones, Peter R. Varieties generated by free completely simple semigroups. **89m:20068**
Kemmerich, S. *see* **Benninghofen, Benjamin; et al., 89a:68132**
Krob, D. Codes limites et factorisations finies du monoïde libre. (English summary) [Limit codes and finite factorizations of the free monoid] **89j:68081**
Kukin, G. P. *see* **Bokut′, L. A., 89a:20036**
Larionov, N. B. Embedding of semigroup amalgams in varieties. (Russian) **89b:20127**
Lin, Yu Cai Relation word problems. **89k:03051**
Otto, Friedrich Finite canonical rewriting systems for congruences generated by concurrency relations. **89e:68074**
— An example of a one-relator group that is not a one-relation monoid. **89b:20074**
— *see also* **Benninghofen, Benjamin; et al., 89a:68132**
Petrich, Mario (*with* Thierrin, G.) Congruences associated with DOL-schemes. **89d:68047**
Petrova, G. L. The irreducibility of the generating set of a polyhedral semigroup. (Russian) **89c:52006**
Richter, Michael M. *see* **Benninghofen, Benjamin; et al., 89a:68132**
Robertson, Edmund F. *see* **Howie, John M.; et al., 89i:20105**
Schein, Boris M. *see* **Howie, John M.; et al., 89i:20105**
Squier, Craig C. Word problems and a homological finiteness condition for monoids. **89a:20059**
Thierrin, G. *see* **Petrich, Mario, 89d:68047**

20M07 Varieties of semigroups

Almeida, Jorge On pseudovarieties of monoids. **89h:20084**
— Some pseudovariety joins involving the pseudovariety of finite groups. **89c:20084**
— On power varieties of semigroups. **89j:20062**
Azevedo, Assis Operations preserving homomorphisms on the class of finite semigroups DS. (Portuguese) **89e:20100**
Baader, Franz Unification in varieties of idempotent semigroups. **89b:20126**
Brusnitsyna, S. G. (*with* Sukhanov, E. V.) Countable representable varieties of semigroups. (Russian) **89i:20085**

Demlová, Marie (*with* Koubek, Václav) Endomorphism monoids of bands. **89m:20067**
Galanová, Yana Some properties of tensor products of semigroups. **89f:20067**
Imaoka, Teruo Amalgamation for regular $*$-semigroups. (*see* **89a:20001**)
Jones, Peter R. Congruence semimodular varieties of semigroups. **89h:20085**
— Varieties generated by free completely simple semigroups. **89m:20068**
Knyazev, O. V. Finitely attainable varieties of Clifford semigroups. (Russian) **89f:20068**
Koubek, Václav *see* **Demlová, Marie, 89m:20067**
Larionov, N. B. Embedding of semigroup amalgams in varieties. (Russian) **89b:20127**
Margolis, S. W. (*with* Pin, J.-E.) Inverse semigroups and varieties of finite semigroups. **89j:20066c**
Martynova, T. A. The product of varieties of semigroups. **89e:20101**
Pastijn, Francis (*with* Trotter, P. G.) Residual finiteness in completely regular semigroup varieties. **89d:20046**
Petrich, Mario (*with* Reilly, N. R.) Semigroups generated by certain operators on varieties of completely regular semigroups. **89c:20085**
Pin, J.-E. A topological approach to a conjecture of Rhodes. **89m:20069**
— *see also* **Margolis, S. W., 89j:20066c**
Polák, Libor On varieties of completely regular semigroups. II. **89a:20063**
— On varieties of completely regular semigroups. III. **89c:20086**
Reilly, N. R. *see* **Petrich, Mario, 89c:20085**
Sapir, O. B. The axiomatic and the basis series of varieties of commutative semigroups. (Russian) **89i:20086**
Sukhanov, E. V. *see* **Brusnitsyna, S. G., 89i:20085**
Trakhtman, A. N. Some finite infinitely basable semigroups. (Russian) **89f:20069**
— A six-element semigroup that generates a variety with a continuum of subvarieties. (Russian) **89i:20087**
Trotter, P. G. Varieties of completely regular semigroups: their injectives. **89i:20088**
— *see also* **Pastijn, Francis, 89d:20046**
Vernikov, B. M. Varieties of semigroups whose lattice of subvarieties is decomposable into a direct product. (Russian) **89i:20089**
— (*with* Volkov, M. V.) Lattices of nilpotent varieties of semigroups. (Russian) **89i:20090**
Volkov, M. V. *see* **Vernikov, B. M., 89i:20090**

Items with secondary classifications in 20M07

Denecke, Klaus (*with* Pöschel, Reinhard) A characterization of Sheffer functions by hyperidentities. **89g:08004**
Kearnes, Keith A. On the relationship between AP, RS and CEP. **89m:08006**
Kittler, Dietmar *see* **Thron, Reinhard, 89f:20070**
Mel′nichuk, I. L. Solvability of the problems of equality and divisibility in varieties of semigroups. (Russian) **89b:20122**
Perel′man, M. A. Identities in semigroups generated by amalgams. (Russian) **89b:20123**
Petrich, Mario (*with* Thierrin, G.) Languages induced by certain homomorphisms of a free monoid. **89g:20101**
Pöschel, Reinhard *see* **Denecke, Klaus, 89g:08004**
Reilly, N. R. Free objects in certain varieties of semigroups. **89g:20092**
Thérien, Denis On the equation $x^t = x^{t+q}$ in categories. **89k:20099**
Thierrin, G. *see* **Petrich, Mario, 89g:20101**
Thron, Reinhard (*with* Kittler, Dietmar) On semigroups with least generating sets. **89f:20070**
Trotter, P. G. Free generators in relatively free completely regular semigroups. **89k:20087**

20M10 General structure theory

Alimpić, Branka P. (*with* Krgović, Dragica N.) On lattices of some congruences on regular semigroups. **89c:20087**
Armstrong, Sheena Structure of concordant semigroups. **89k:20088**
Berg, Lothar Linear involutory semigroups with two generators. **89h:20086**
Birget, Jean-Camille Stability and J-depth of expansions. **89j:20063**
Bogdanović, Stojan (*with* Malinović, Todor) Semigroups whose proper subsemigroups are (right-) t-Archimedean. **89g:20093**
— Semigroups of Galbiati-Veronesi. II. (Serbo-Croatian summary) **89h:20087**
— (*with* Milić, Svetozar) Inflation of semigroups. **89b:20128**
— Inflations of semigroups and semirings. (Serbo-Croatian summary) **89h:20088**
— Generalized U-semigroups. (Serbo-Croatian summary) **89m:20070**
Bonzini, Celestina A class of permutable semigroups. (Italian. English summary) **89d:20047**
Bulman-Fleming, Sydney (*with* McDowell, Kenneth) On V. Fleischer's characterization of absolutely flat monoids. **89k:20089**
Chatterjee, T. K. *see* **Dutta, T. K., 89i:20092**
Ćirić, Miroslav c-(m,n)-ideal semigroups. **89c:20088**
Demlová, Marie (*with* Koubek, Václav) Minimal congruences and coextensions in semigroups. **89i:20091**
Dutta, T. K. (*with* Chatterjee, T. K.) Green's equivalences on Γ-semigroup. **89i:20092**
Easdown, David Biorder-preserving coextensions of fundamental semigroups. **89j:20064**
Fountain, John B. (*with* Petrich, Mario) Completely 0-simple semigroups of quotients. III. **89m:20071**
Garzon, Max (*with* Zalcstein, Yechezkel) On permutation properties in groups and semigroups. **89e:20102**
— (*with* Zalcstein, Yechezkel) Linear semigroups with permutation properties. **89e:20103**
Gomes, Gracinda M. S. Orthodox congruences on regular semigroups. **89m:20072**
Gould, Victoria A. R. Orders in semigroups. **89c:20089**
— Absolutely flat completely 0-simple semigroups of left quotients. **89k:20090**
Guo, Yu Qi *see* **Ren, Xue Ming; et al., 89h:20091**
Hall, T. E. Amalgamation for inverse and generalized inverse semigroups. **89j:20065**
Howie, John M. Why study semigroups? **89e:20104**
Huq, S. A. Distributivity in semigroups. **89h:20089**
Johnston, K. G. Lattice isomorphisms of modular inverse semigroups. **89m:20073**
Jones, Peter R. Basis properties, exchange properties and embeddings in idempotent-free semigroups. **89d:20048**
Justin, Jacques (*with* Pirillo, Giuseppe) Une condition de finitude pour les semi-groupes finiment engendrés. (English summary) [A finiteness condition for finitely generated semigroups] **89b:20129**
Kepka, T. (*with* Němec, P.; Niemenmaa, Markku) On representable pairs. **89m:20074**
Kittler, Dietmar *see* **Thron, Reinhard, 89f:20070**
Koganov, L. M. Möbius functions and Frobenius constants of semigroups generated by linear forms of special type. (Russian) **89e:20105**
Koubek, Václav *see* **Demlová, Marie, 89i:20091**
Kracholova, Lilyana *see* **Todorov, K., 89d:20050**
Krgović, Dragica N. *see* **Alimpić, Branka P., 89c:20087**
Krivenko, V. M. Semigroups with normal idempotents. (Russian) **89b:20130**
Kuznetsov, A. V. (*with* Negru, I. S.) Examples of nontrivial quasi-identities that are true in lattices of congruences of semigroups. (Russian) **89i:20093**
Lawson, Mark V. Rees matrix covers for a class of abundant semigroups. **89b:20131**
Luedeman, John K. (*with* McMorris, F. R.) Intersection graphs of semigroups. **89a:20064**
Madhavan, S. Bisimple weakly inverse semigroups with partial right unitoids. **89b:20132**
Malinović, Todor Semigroups whose subsemigroups are left unitary. **89c:20090**
— *see also* **Bogdanović, Stojan, 89g:20093**
Margolis, S. W. (*with* Pin, J.-E.) Inverse semigroups and extensions of groups by semilattices. **89j:20066a**
Mashevitskiĭ, G. I. Completely simple and completely 0-simple semigroup identities. **89c:20091**
McDowell, Kenneth *see* **Bulman-Fleming, Sydney, 89k:20089**
McMorris, F. R. *see* **Luedeman, John K., 89a:20064**
Milić, Svetozar *see* **Bogdanović, Stojan, 89b:20128**
Nagy, Attila Modular right congruences of semigroups. **89g:20094**
— Subdirectly irreducible WE-2 semigroups with globally idempotent core. **89i:20094**
Nakajima, Sizuo On the augmented hull of right regular bands. **89c:20092**
Negru, I. S. *see* **Kuznetsov, A. V., 89i:20093**
Němec, P. *see* **Kepka, T.; et al., 89m:20074**
Niemenmaa, Markku *see* **Kepka, T.; et al., 89m:20074**
Nordahl, Thomas E. Separative P.I. semigroups are embeddable into a semilattice of groups. **89i:20095**
Pastijn, Francis (*with* Petrich, Mario) The congruence lattice of a regular semigroup. **89j:20067**
Petrich, Mario Congruences on strong semilattices of regular simple semigroups. **89c:20093**
— *see also* **Pastijn, Francis, 89j:20067** *and* **Fountain, John B., 89m:20071**
Pin, J.-E. *see* **Margolis, S. W., 89j:20066a**
Pirillo, Giuseppe *see* **Justin, Jacques, 89b:20129**
Pondělíček, Bedřich Principal tolerance trivial commutative semigroups. **89i:20096**
Protić, Petar V. The lattice of r-semiprime idempotent-separating congruences on r-semigroup. **89h:20090**
— *see also* **Stamenković, Blagoje, 89g:20095** *and* **89k:20094**
Putcha, M. S. Algebraic monoids whose nonunits are products of idempotents. **89c:20094**
— Monoids on groups with BN-pairs. **89k:20091**
Rajan, A. R. Combinatorial regular semigroups with inverse transversals. **89k:20092**
Ren, Xue Ming (*with* Guo, Yu Qi; Zhu, Ping) E-rectangular quasiregular semigroups. (Chinese) **89h:20091**
Restivo, Antonio Permutation properties and the Fibonacci semigroup. **89m:20075**
Rhodes, John A short proof that $\hat{S}_A^+$ is finite if S is finite. **89k:20093**
Saha, N. K. On Γ-semigroup. II. **89d:20049**
— On Γ-semigroup. III. **89e:20106**
Saito, Tatsuhiko Some remarks on finite full transformation semigroups. (*see* **89a:20001**)
Sasaki, Morio The class of integer semigroups is globally determined. (*see* **89a:20001**)
— Isomorphism problem of power semigroups of integer semigroups. **89j:20068**
Seitz, K. Factorization and decomposition properties of matrix semigroups. **89i:20097**
Sen, Mridul Kanti *see* **Yamada, Miyuki, 89e:20108** *and* (**89a:20001**)
Sidorov, Aleksandr Vladimirovich Stabilization of Kurosh chains in the class of semigroups with zero. **89j:20069**
Stamenković, Blagoje (*with* Protić, Petar V.) The natural partial order on an r-cancellative semigroup. (Serbo-Croatian summary) **89g:20095**
— (*with* Protić, Petar V.) On the compatibility of the natural partial order on an r-cancelative r-semigroup. (Serbo-Croatian summary) **89k:20094**
Straubing, Howard (*with* Thérien, Denis) Partially ordered finite monoids and a theorem of I. Simon. **89j:20070**
Szendrei, Mária B. A generalization of McAlister's P-theorem for E-unitary regular semigroups. **89b:20133**
— A new interpretation of free orthodox and generalized inverse *-semigroups. **89i:20098**
— On homomorphisms of PL-semigroups. **89j:20071**
Tamura, Takayuki (*with* Yamaoka, Kenya) Note on Boolean matrices and semigroups. **89e:20107**
Thérien, Denis *see* **Straubing, Howard, 89j:20070**
Thron, Reinhard (*with* Kittler, Dietmar) On semigroups with least generating sets. **89f:20070**
Tishchenko, A. V. Nilpotency in the sense of A. I. Mal′tsev of the wreath product of semigroups. (Russian) **89i:20099**
Todorov, K. Idempotents of the symmetric semigroup and its structure. (Bulgarian. German summary) **89a:20065**
— (*with* Kracholova, Lilyana) Rectangular bands of groups of the D-classes of the symmetric semigroup and some of their subsemigroups. (Bulgarian. English summary) **89d:20050**
— Two-sided-identity (antiregular) semigroups. (Bulgarian. English and Russian summaries) **89g:20096**
Trofimov, V. I. On the partially ordered set of idempotents of a semigroup. (Russian) **89f:20071**
Varricchio, Stefano A finiteness condition for finitely generated semigroups. **89m:20076**
Yamada, Miyuki (*with* Sen, Mridul Kanti) On P-regular semigroups. (*see* **89a:20001**)
— (*with* Sen, Mridul Kanti) P-regularity in semigroups. **89e:20108**
— Some remarks on strong semilattices of certain special semigroups. **89m:20077**
Yamaoka, Kenya Note on a finite power semigroup of a regular semigroup satisfying $xyzw = xzyw$. **89f:20072**
— *see also* **Tamura, Takayuki, 89e:20107**

Yoshida, Reikichi Regular semigroups with S-inverse transversals. (*see* **89a:20001**)
Zalcstein, Yechezkel *see* **Garzon, Max, 89e:20102** *and* **89e:20103**
Zhang, Chun Cheng On the substructures of a multiple group. (Chinese. English summary) **89k:20095**
Zhu, Ping *see* **Ren, Xue Ming; et al., 89h:20091**

Items with secondary classifications in 20M10

Byleen, Karl Inverse semigroups with countable universal semilattices. **89b:20134**
Drbohlav, K. (*with* Kepka, T.; Němec, P.) Associativity semihypergroups and related problems. **89f:20086**
Fărcaş, Gh. Definition des demi-treillis par 2500 systemes d'axiomes. [Definition of semilattices by 2500 axiom systems] (*see* **89f:00028**)
Fountain, John B. Free right h-adequate semigroups. **89h:20082**
Hildebrant, J. A. (*with* Schäferkotter, M. R.) Compact totally disconnected k-divisible semigroups. **89b:22003**
Imaoka, Teruo Free products and amalgamation of generalized inverse $*$-semigroups. **89e:20113**
Isroilov, S. I. Approximation of some ordered semigroups with a defined order relation. (Russian. Tajiki summary) **89i:06024**
Karataeva, T. V. Homeomorphism of multiplicative and additive semigroups without continuity conditions. (Russian) **89a:47068**
— On the mixed product of evolution multiplicative systems without continuity conditions. (Russian) **89a:47069**
Kepka, T. *see* **Drbohlav, K.; et al., 89f:20086**
Kmeť, František Radicals and their left ideal analogues in a semigroup. (Russian summary) **89e:20109**
Margolis, S. W. (*with* Pin, J.-E.) Expansions, free inverse semigroups, and Schützenberger product. **89j:20066b**
Němec, P. *see* **Drbohlav, K.; et al., 89f:20086**
Pin, J.-E. *see* **Margolis, S. W., 89j:20066b**
Reis, C. M. When are Rees congruences principal? **89k:20086**
Satyanarayana, M. On homomorphisms of ordered semigroups into real numbers. **89m:06020**
Schäferkotter, M. R. *see* **Hildebrant, J. A., 89b:22003**
Steinfeld, O. (*with* Tran Thanh Thang) Remarks on canonical quasi-ideals in semigroups. **89f:20074**
Tishchenko, A. V. The degree of principal left simplicity of a semigroup. **89h:20092**
Tran Thanh Thang *see* **Steinfeld, O., 89f:20074**
Viennot, Gérard Heaps of pieces. I. Basic definitions and combinatorial lemmas. **89a:05025**

20M11 Radical theory

Kim, Hyekyung A generalization of prime ideals in semigroups. **89a:20066**
Kmeť, František Radicals and their left ideal analogues in a semigroup. (Russian summary) **89e:20109**

Items with secondary classifications in 20M11

Márki, L. (*with* Mlitz, R.; Wiegandt, R.) A general Kurosh-Amitsur radical theory. **89h:18007**
Mlitz, R. *see* **Márki, L.; et al., 89h:18007**
Wiegandt, R. *see* **Márki, L.; et al., 89h:18007**

20M12 Ideal theory

Kim, Ju Pil *see* **Park, Young Soo; et al., 89f:20073**
Luedeman, John K. Intersection graphs of semigroups. II. Quasi-ideals and bi-ideals. **89i:20100**
Park, Young Soo (*with* Kim, Ju Pil; Sohn, Mun-Gu) Semiprime ideals in semigroups. **89f:20073**
Sohn, Mun-Gu *see* **Park, Young Soo; et al., 89f:20073**
Steinfeld, O. (*with* Tran Thanh Thang) Remarks on canonical quasi-ideals in semigroups. **89f:20074**
Tamura, Takayuki (*with* Yamaoka, Kenya) The 0-minimal ideal of the global of a combinatorial completely 0-simple semigroup. **89i:20101**
Tishchenko, A. V. The degree of principal left simplicity of a semigroup. **89h:20092**
Tran Thanh Thang *see* **Steinfeld, O., 89f:20074**
Yamaoka, Kenya *see* **Tamura, Takayuki, 89i:20101**

Items with secondary classifications in 20M12

Ćirić, Miroslav c-(m,n)-ideal semigroups. **89c:20088**
Kim, Hyekyung A generalization of prime ideals in semigroups. **89a:20066**
Malinović, Todor Semigroups whose subsemigroups are left unitary. **89c:20090**
Reis, C. M. When are Rees congruences principal? **89k:20086**
Sidorov, Aleksandr Vladimirovich Stabilization of Kurosh chains in the class of semigroups with zero. **89j:20069**

20M14 Commutative semigroups

Berg, Lothar Erzeugung linearer involutorischer Halbgruppen. [Generating linear involutory semigroups] **89e:20110**
— Every commutative semigroup can be embedded into a complementary semigroup with involution. **89k:20096**
Krause, Ulrich On monoids of finite real character. **89i:20102**
Krob, D. Monoïdes et semi-anneaux complets. (English summary) [Complete semirings and monoids] **89e:20111**
Lettl, Günter Subsemigroups of finitely generated groups with divisor-theory. **89m:20078**
Li, Shi Zheng The tensor product of cancellation semigroups. (Chinese. English summary) **89g:20097**
Pondělíček, Bedřich Commutative semigroups whose lattice of tolerances is Boolean. **89e:20112**
Poyatos Suárez, Francisco Archimedean decomposition of commutative semigroups with operators. **89m:20079**

Items with secondary classifications in 20M14

Ebanks, Bruce Kurepa's functional equation on Gaussian semigroups. **89g:39014**
Nöbauer, Wilfried Some remarks on permutable chains of polynomials. **89c:11039**
Sapir, O. B. The axiomatic and the basis series of varieties of commutative semigroups. (Russian) **89i:20086**
Turnwald, G. Permutable chains of polynomials of odd degree. **89f:13010**

20M15 Mappings of semigroups

Byleen, Karl Inverse semigroups with countable universal semilattices. **89b:20134**
— Embedding any countable semigroup without idempotents in a 2-generated simple semigroup without idempotents. **89i:20103**
Imaoka, Teruo Free products and amalgamation of generalized inverse $*$-semigroups. **89e:20113**
Ovsyannikov, A. Ya. Lattice isomorphisms of nonperiodic semigroups with a cancellation law. (Russian) **89j:20072**

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Nordahl, Thomas E. Separative P.I. semigroups are embeddable into a semilattice of grou **89i:20095**

20M17 Regular semigroups (use only for secondary classification)

Items with secondary classifications in 20M17

Alimpić, Branka P. (*with* Krgović, Dragica N.) On lattices of some congruences on regula semigroups. **89c:20087**
Armstrong, Sheena Structure of concordant semigroups. **89k:20088**
Gomes, Gracinda M. S. Orthodox congruences on regular semigroups. **89m:20072**
Hall, T. E. Amalgamation for inverse and generalized inverse semigroups. **89j:20065**
Jones, Peter R. Basis properties for semigroups. **89f:20066**
Krgović, Dragica N. *see* **Alimpić, Branka P., 89c:20087**
Petrich, Mario Congruences on strong semilattices of regular simple semigroups. **89c:200**
Putcha, M. S. (*with* Renner, L. E.) The system of idempotents and the lattice of $\mathcal{J}$-classe of reductive algebraic monoids. **89k:20098**
Renner, L. E. *see* **Putcha, M. S., 89k:20098**
Sen, Mridul Kanti *see* **Yamada, Miyuki, (89a:20001)**
Yamada, Miyuki (*with* Sen, Mridul Kanti) On P-regular semigroups. (*see* **89a:20001**)
Yoshida, Reikichi Regular semigroups with S-inverse transversals. (*see* **89a:20001**)

20M18 Inverse semigroups (use only for secondary classification

Items with secondary classifications in 20M18

Byleen, Karl Inverse semigroups with countable universal semilattices. **89b:20134**
Hall, T. E. Amalgamation for inverse and generalized inverse semigroups. **89j:20065**
Madhavan, S. Bisimple weakly inverse semigroups with partial right unitoids. **89b:20132**
Margolis, S. W. (*with* Pin, J.-E.) Inverse semigroups and extensions of groups by semilattices. **89j:20066a**
— (*with* Pin, J.-E.) Expansions, free inverse semigroups, and Schützenberger product. **89j:20066b**
— (*with* Pin, J.-E.) Inverse semigroups and varieties of finite semigroups. **89j:20066c**
Pin, J.-E. *see* **Margolis, S. W., 89j:20066a; 89j:20066b** *and* **89j:20066c**
Piochi, B. Congruences on inversive hemirings. **89g:16047**
Szendrei, Mária B. A new interpretation of free orthodox and generalized inverse *-semigroups. **89i:20098**

20M20 Semigroups of transformations, etc. [see also 47D05, 47H20, 54H15]

Atanassov, Krassimir T. Generalized index matrices. **89c:20095**
Barit, W. (*with* Magill, K. D., Jr.; Subbiah, S.) The congruences on $S(X)$ which commute with V. **89c:20096**
— (*with* Magill, K. D., Jr.; Subbiah, S.) Green's relations, the V relation and congruences o $S(X)$. **89i:20104**
Feĭzullaev, R. B. Simplicity and subdirect indecomposability of some transformation semigroups. (Russian. English and Azerbaijani summaries) **89k:20097**
Goberstein, Simon M. Correspondences of semigroups. **89e:20114**
Higgins, P. M. Digraphs and the semigroup of all functions on a finite set. **89b:20135**
— The range order of a product of i transformations from a finite full transformation semigroup. **89b:20136**
Hofmann, Karl Heinrich (*with* Magill, K. D., Jr.) The smallest proper congruence on $S(X)$ **89m:20080**
Howie, John M. (*with* Marques-Smith, M. Paula O.) A nilpotent-generated semigroup associated with a semigroup of full transformations. **89a:20067**
— (*with* Robertson, Edmund F.; Schein, Boris M.) A combinatorial property of finite full transformation semigroups. **89i:20105**
Kelarev, A. V. A simple matrix semigroup which is not completely simple. **89b:20137**
Koryakov, I. O. Linear periodic semigroups with central idempotents. (Russian) **89d:2005**
Koval'chuk, Ê. O. V-rings of semigroups of transformations of finite sets. (Ukrainian. Russian summary) **89c:20097**
Lipscomb, Stephen Leon The structure of the centralizer of a permutation. **89d:20052**
Magill, K. D., Jr. Automorphism groups of sandwich semigroups. **89c:20098**
— Monomorphisms of semigroups of B-rigid local dendrites. **89b:20138**
— Near-ring-semigroups of continuous self-maps. **89c:20099**
— The countability index of the endomorphism semigroup of a vector space. **89i:20106**

— *see also* **Barit, W.; et al., 89c:20096; 89i:20104** *and* **Hofmann, Karl Heinrich, 89m:20080**

Marques-Smith, M. Paula O. *see* **Howie, John M., 89a:20067**

Molchanov, V. A. Concrete characterization of partial endomorphism semigroups of graphs. **89c:20100**

Robertson, Edmund F. *see* **Howie, John M.; et al., 89i:20105**

Saito, Tatsuhiko Some remarks on finite full transformation semigroups. **89b:20139**

Schein, Boris M. *see* **Howie, John M.; et al., 89i:20105**

Shoji, Kunitaka Absolute flatness of the full transformation semigroups. (*see* **89a:20001**)

— Absolute flatness of the full transformation semigroups. **89m:20081**

Subbiah, S. *see* **Barit, W.; et al., 89c:20096** *and* **89i:20104**

Trokhimenko, V. S. Characterization of a semigroup of semiclosure operations on an ordered set. (Russian) **89i:20107**

Items with secondary classifications in 20M20

Adu, David I. The number of certain dendrites of order three. **89f:54067**

Ahsan, J. Monoids characterized by their quasi-injective S-systems. **89c:20101**

Beilis, M. V. On stable quasi-orders on some semigroups of transformations. (Russian) **89d:06026**

Brown, Bruce Maxwell (*with* Higgins, P. M.) Finite full transformation semigroups as collections of random functions. **89g:60067**

Császár, Á. Multiplicative semigroups of continuous mappings into topological semigroups. **89k:54010**

Demlová, Marie (*with* Koubek, Václav) Endomorphism monoids of bands. **89m:20067**

Denecke, Klaus (*with* Pöschel, Reinhard) A characterization of Sheffer functions by hyperidentities. **89g:08004**

Easdown, David The minimal faithful degree of a semilattice of groups. **89j:20073**

Fleischer, V. (*with* Knauer, Ulrich) Endomorphism monoids of acts are wreath products of monoids with small categories. **89j:20074**

Higgins, P. M. *see* **Brown, Bruce Maxwell, 89g:60067**

Hu, Zhan Solutions of row-monomial (0, 1) matrix equations and their application to transformation semigroups. (Chinese. English summary) **89j:15006**

Knauer, Ulrich *see* **Fleischer, V., 89j:20074**

Koubek, Václav *see* **Demlová, Marie, 89m:20067**

Leung, Hing On the topological structure of a finitely generated semigroup of matrices. **89d:68058**

Levi, Inessa Order-automorphisms of normal subsets of a power set. **89a:06017**

Nummert, U. Monoids of the endomorphisms of Boolean products of graphs. (Russian. English and Estonian summaries) **89b:05143**

Pöschel, Reinhard *see* **Denecke, Klaus, 89g:08004**

Zalcstein, Yechezkel A finiteness theorem for linear semigroups. **89g:20100**

Zaretskiĭ, K. A. Lattices of cuts of binary relations. (Russian) **89h:04001**

20M25 Semigroup rings, multiplicative semigroups of rings

Matsuda, Ryûki Notes on torsion-free abelian semigroup rings. **89h:20093**

Okniński, J. Semigroup rings as excellent extensions and the regular radical. **89b:20140**

Quesada, Antonio On ideals and radicals of a semigroup ring over a right zero semigroup. **89i:20108**

Items with secondary classifications in 20M25

Cedó, Ferran A question of Cohn on semifir monoid rings. **89e:16006**

Finkel′shteĭn, M. Ya. *see* **Kozhukhov, I. B., 89c:16031**

Jespers, E. Chain conditions and semigroup graded rings. **89j:16024**

Kelarev, A. V. Radicals and semigroup rings. (Russian) **89k:16011**

Kozhukhov, I. B. (*with* Finkel′shteĭn, M. Ya.) Perfect and semiprimary subgroup rings. (Russian) **89c:16031**

Leloup, Gérard Équivalence élémentaire entre anneaux de monoïdes. [Elementary equivalence between rings of monoids] **89e:03055**

Munn, W. D. The Jacobson radical of a band ring. **89j:16034**

Okniński, J. Radicals of group and semigroup rings. **89e:16018**

— On monomial algebras. **89d:16036**

Piochi, B. Congruences on inversive hemirings. **89g:16047**

Zalcstein, Yechezkel A finiteness theorem for linear semigroups. **89g:20100**

20M30 Representation of semigroups

Al′shanskiĭ, L. A. Some varieties of representations of semigroups. (Russian) **89g:20098**

— (*with* Vovsi, S. M.) Identities of triangular products of representations of semigroups. (Russian) **89d:20053**

Easdown, David The minimal faithful degree of a semilattice of groups. **89j:20073**

Edigaryan, B. M. Algebra of the representation of a finite cyclic semigroup over a field of characteristic 2. (Russian. Armenian summary) **89g:20099**

Fleischer, V. (*with* Knauer, Ulrich) Endomorphism monoids of acts are wreath products of monoids with small categories. **89j:20074**

Knauer, Ulrich *see* **Fleischer, V., 89j:20074**

Putcha, M. S. (*with* Renner, L. E.) The system of idempotents and the lattice of $\mathscr{J}$-classes of reductive algebraic monoids. **89k:20098**

Renner, L. E. *see* **Putcha, M. S., 89k:20098**

Slover, Rebecca The matrix envelope of a semigroup. **89m:20082**

Vovsi, S. M. *see* **Al′shanskiĭ, L. A., 89d:20053**

Zalcstein, Yechezkel A finiteness theorem for linear semigroups. **89g:20100**

Items with secondary classifications in 20M30

Armstrong, Sheena Structure of concordant semigroups. **89k:20088**

Ber, A. F. The principle of duality for compact inverse semigroups. (Russian) **89a:22006**

Bulman-Fleming, Sydney (*with* McDowell, Kenneth) On V. Fleischer's characterization of absolutely flat monoids. **89k:20089**

Kelarev, A. V. A simple matrix semigroup which is not completely simple. **89b:20137**

Kerov, S. V. Realizations of representations of the Brauer semigroup. (Russian. English summary) **89j:22029**

McDowell, Kenneth *see* **Bulman-Fleming, Sydney, 89k:20089**

20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Qxx, 68Sxx]

Carpi, Arturo Multidimensional unrepetitive configurations. **89h:20094**

Peák, István Automata and their semigroups. **89i:20109**

Petrich, Mario (*with* Thierrin, G.) Languages induced by certain homomorphisms of a free monoid. **89g:20101**

Thérien, Denis On the equation $x^t = x^{t+q}$ in categories. **89k:20099**

Thierrin, G. *see* **Petrich, Mario, 89g:20101**

Tucci, Ralph P. A new proof of the Krohn-Rhodes theorem for transformation semigroups. **89k:20100**

Tully, Edward J. Expletives in languages and middle units in semigroups. **89k:20101**

Items with secondary classifications in 20M35

Almeida, Jorge Overlapping of words in rational languages. **89a:68171**

— On power varieties of semigroups. **89j:20062**

Babcsányi, I. Generalized power quasiautomata. **89d:68057**

— A characterization of cyclic Mealy-automata. **89j:68109**

Book, Ronald V. Thue systems and the Church-Rosser property: replacement systems, specification of formal languages, and presentations of monoids. **89a:03072**

Bucher, Walter A note on regular classes in special Thue systems. **89k:68089**

Chemillier, Marc Monoïde libre et musique. I. Les musiciens ont-ils besoin des mathématiques? (English summary) [The free monoid and music. I. Do musicians need mathematics?] **89b:00045a**

— Monoïde libre et musique. II. (English summary) [The free monoid and music. II] **89b:00045b**

Choffrut, Christian Unavoidable subsets of words. (Spanish. French summary) **89h:68081**

Dauchet, M. (*with* Timmerman, E.) Continuous monoids and yields of infinite trees. (French summary) **89a:68050**

Dididze, Ts. E. On radicals in linear monoid automata. (Russian) **89b:68046**

Diekert, Volker (*with* Möbus, Axel) Hotz-isomorphism theorems in formal language theory. (French summary) **89m:68075**

Dōmōsi, P. (*with* Ésik, Z.) On homomorphic realization of automata with α_0-products. **89g:68049**

Ésik, Z. *see* **Dōmōsi, P., 89g:68049**

Grigorchuk, R. I. Semigroups with cancellations of degree growth. **89f:20065**

Guo, Yu Qi (*with* Thierrin, G.; Zhang, Shu Hua) Semaphore codes and ideals. **89e:94017**

— (*with* Reis, C. M.; Thierrin, G.) Relatively f-disjunctive languages. **89i:68071**

— *see also* **Zhang, Shu Hua, 89i:68072**

Hashiguchi, Kosaburo Notes on congruence relations and factor pumping conditions for rational languages. **89j:68079**

(Howie, A.) *see* **Pin, J.-E., 89a:68125**

Howie, John M. Why study semigroups? **89e:20104**

Ito, Masami[1] (*with* Katsura, M.; Shih, Hui Jan; Yu, S. S.) Automata accepting primitive words. **89b:68037**

Karhumäki, Juhani The Ehrenfeucht conjecture for transducers. (German and Russian summaries) **89d:68043**

Katsura, M. (*with* Shih, Hui Jan) Decomposition of languages into disjunctive outfix codes. **89k:68084**

— Disjunctive splittability of languages. **89f:68035**

— *see also* **Ito, Masami[1]; et al., 89b:68037**

Krob, D. Codes limites et factorisations finies du monoïde libre. (English summary) [Limit codes and finite factorizations of the free monoid] **89j:68081**

Lippert, D. (*with* Thomas, Wolfgang) Relativized star-free expressions, first-order logic, and a concatenation game. **89m:68077**

Möbus, Axel *see* **Diekert, Volker, 89m:68075**

Narendran, Paliath (*with* Otto, Friedrich) Elements of finite order for finite weight-reducing and confluent Thue systems. **89k:03043**

Niemenmaa, Markku Decomposition of transformation groups of permutation machines. **89d:68059**

Otto, Friedrich Finite canonical rewriting systems for congruences generated by concurrency relations. **89e:68074**

— *see also* **Narendran, Paliath, 89k:03043**

Péladeau, Pierre (*with* Thérien, Denis) Sur les langages reconnus par des groupes nilpotents. (English summary) [On the languages recognized by nilpotent groups] **89a:68055**

Peranidze, I. N. Constructions of the interlacing of a biautomaton by a representation. (Russian) **89e:68092**

Petrich, Mario (*with* Thierrin, G.) Congruences associated with DOL-schemes. **89d:68047**

Pilz, Günter F. Strictly connected group automata. **89a:68163**

Pin, J.-E. ★ Varieties of formal languages. **89a:68125**

Piochi, B. Some remarks on characteristic semigroups of automata. **89j:68112**

Reis, C. M. A note on F-disjunctive languages. **89b:68039**

— *see also* **Guo, Yu Qi; et al., 89i:68071**

Sakarovitch, Jacques Kleene's theorem revisited. **89b:68040**

(Schützenberger, Marcel-Paul) *see* **Pin, J.-E., 89a:68125**

Shen, Hong[1] The semigroup structure of automata. (Chinese) **89d:68060**

Shih, Hui Jan *see* **Ito, Masami[1]; et al., 89b:68037** *and* **Katsura, M., 89k:68084**

Simon, Imre Infinite words and a theorem of Hindman. (Spanish summary) **89e:05026**

Thérien, Denis *see* **Péladeau, Pierre, 89a:68055**

Thierrin, G. *see* **Petrich, Mario, 89d:68047; Guo, Yu Qi; et al., 89e:94017** *and* **89i:68071**

Thomas, Wolfgang *see* **Lippert, D., 89m:68077**

Timmerman, E. *see* **Dauchet, M., 89a:68050**

T″rkalanov, Krasimir D. Words in a strong normal form, stable congruence in a free semigroup and topological sorting. (Russian) (*see* **89j:68011**)

Turakainen, Paavo Characterizations of simple transducers and principal semi-AFLs in terms of morphisms and inverse morphisms. (German and Russian summaries) **89b:68042**

Weinert, Hanns Joachim Generalized semialgebras over semirings. **89i:16035**
Yu, S. S. *see* **Ito, Masami^1; et al., 89b:68037**
Zhang, Shu Hua (*with* Guo, Yu Qi) Two notes on the classes of S-regular languages. (Chinese) **89i:68072**
— *see also* **Guo, Yu Qi; et al., 89e:94017**

20M50 Connections with homological algebra and category theory

Ahsan, J. Monoids characterized by their quasi-injective S-systems. **89c:20101**
— (*with* Saifullah, K.) Completely quasi-projective monoids. **89g:20102**
Aznar García, Enrique R. (*with* Lirola Térrez, Antonio) Abelian groupoids and extensions of monoids. (Spanish. English summary) **89g:20103**
Fleischer, V. The isomorphism and Morita-equivalence of wreath products of monoids. (Russian. English and Estonian summaries) **89b:20141**
Goralčík, P. (*with* Koubek, Václav) On universality of extensions. **89h:20095**
Higgins, P. M. Epimorphisms and amalgams. **89m:20083**
Hion, Jaak On nets of free polygons over a category and their categories of homomorphisms. **89b:20142**
Knauer, Ulrich (*with* Mikhalëv, A. V.) Wreath products of acts over monoids. I. Regular and inverse acts. **89g:20104**
Koubek, Václav *see* **Goralčík, P., 89h:20095**
Leech, Jonathan Constructing inverse monoids from small categories. **89f:20075**
Lirola Térrez, Antonio *see* **Aznar García, Enrique R., 89g:20103**
Mikhalëv, A. V. *see* **Knauer, Ulrich, 89g:20104**
Saifullah, K. *see* **Ahsan, J., 89g:20102**
Sevilla, Alvaro M. Equivalences between inverse monoids and congruences. (Spanish. English summary) **89g:20105**

Items with secondary classifications in 20M50

Bulman-Fleming, Sydney (*with* McDowell, Kenneth) On V. Fleischer's characterization of absolutely flat monoids. **89k:20089**
Cornish, W. H. ★ Antimorphic action. **89a:18009**
Demlová, Marie (*with* Koubek, Václav) Endomorphism monoids of bands. **89m:20067**
Fleischer, V. (*with* Knauer, Ulrich) Endomorphism monoids of acts are wreath products of monoids with small categories. **89j:20074**
Knauer, Ulrich *see* **Fleischer, V., 89j:20074**
Koubek, Václav *see* **Demlová, Marie, 89m:20067**
McDowell, Kenneth *see* **Bulman-Fleming, Sydney, 89k:20089**
Shoji, Kunitaka Absolute flatness of the full transformation semigroups. **89m:20081**
Squier, Craig C. Word problems and a homological finiteness condition for monoids. **89a:20059**
Thérien, Denis On the equation $x^t = x^{t+q}$ in categories. **89k:20099**
Trotter, P. G. Varieties of completely regular semigroups: their injectives. **89i:20088**

20M99 None of the above, but in this section

Krob, D. Monoïdes et semi-anneaux continus. [Continuous monoids and semirings] **89h:20096**
Mushtaq, Q. (*with* Yusuf, S. M.) On LA-semigroup defined by a commutative inverse semigroup. (Serbo-Croatian summary) **89k:20102**
Renner, L. E. Conjugacy classes of semisimple elements, and irreducible representations of algebraic monoids. **89e:20115**
— Representations of rank one algebraic monoids. **89e:20116**
— Class groups of rank one semisimple monoids. **89d:20054**
Sen, Mridul Kanti (*with* Seth, A.) Radical of Γ-semigroup. **89h:20097**
Seth, A. *see* **Sen, Mridul Kanti, 89h:20097**
Skornyakov, L. A. Idempotents of the semigroup of infinite stochastic matrices. (Russian) **89f:20076**
Tolstova, G. S. Approximation of semigroups with respect to predicates by special homomorphisms. (Russian) **89b:20143**
Yusuf, S. M. *see* **Mushtaq, Q., 89k:20102**

Items with secondary classifications in 20M99

Bayasgalan, B. Decidability of theories of the derived structures of semigroups. (Russian) **89i:03017**
Freiman, G. (*with* Schein, Boris M.) Group and semigroup theoretic considerations inspired by inverse problems of the additive number theory. **89j:20040**
Ghanim, M. H. *see* **Sidky, F. I., 89j:03048**
Hušek, M. (*with* de Vries, Jan) Preservation of products by functors close to reflectors. **89e:54014**
Lerner, Bao Ting On fuzzy (right-topological) semigroups. **89m:22004**
Lyapin, E. S. Semigroup extensions of partial groupoids. **89g:20119**
Mak, King-Tim (*with* Sigmon, Kermit) Standard threads and distributivity. **89j:22001**
Matsuda, Ryûki Commutative semigroup rings. **89b:13032**
McFadden, R. B. Automated theorem proving applied to the theory of semigroups. **89i:20004**
Meldrum, J. D. P. D.g. near-rings and groups. **89m:16078**
Petrova, Nadezhda L. *see* **Todorinov, S., 89m:06021**
Sapir, M. V. Sur la propriété de base finie pour les pseudovariétés de semigroupes finis. (English summary) [On the finite basis property for pseudovarieties of finite semigroups] **89d:08008**
Schein, Boris M. *see* **Freiman, G., 89j:20040**
Sidky, F. I. (*with* Ghanim, M. H.) Congruence fuzzy relations on semigroups. **89j:03048**
Sigmon, Kermit *see* **Mak, King-Tim, 89j:22001**
Székelyhidi, L. Fréchet's equation and Hyers theorem on noncommutative semigroups. **89j:39013**
Todorinov, S. (*with* Petrova, Nadezhda L.) On L. Fuchs's semigroup condition concerning the linear orderability of a group. (Russian) **89m:06021**

Todorov, K. On generalized quaternion groups and the Hadamard matrices. (Hungarian summary) **89j:20036**
Vervaat, Wim Algebraic duality of Markov processes. **89k:60103**
de Vries, Jan *see* **Hušek, M., 89e:54014**

20Nxx Other generalizations of groups

20N05 Loops, quasigroups [see also 05Bxx]

Belousov, V. D. Autotopies and anti-autotopies in quasigroups. (Russian) **89g:20106**
Belyavskaya, G. B. The nuclei and center of a quasigroup. (Russian) **89f:20077**
Bénéteau, L. Quasigroups and groups arising from cubic surfaces. **89g:20107**
— (*with* Razafimanantsoa, Gérard) Boucles de Moufang k-nilpotentes minimales. (English summary) [Minimal k-nilpotent Moufang loops] **89d:20055**
— (*with* Lacaze, Jacqueline) Symplectic trilinear forms and related designs and quasigroups. **89f:20078**
Chein, Orin (*with* Goodaire, E. G.) Moufang loops with limited commutativity and one commutator. **89i:20110**
Chronowski, Antoni Extensions of inverse loops. **89e:20117**
Derienko, I. I. On a conjecture of Brualdi. (Russian) **89g:20108**
Drápal, A. (*with* Kepka, T.) Parity of orthogonal permutations. **89b:20144**
Duplák, Ján Identities and deleting maps on quasigroups. **89e:20118**
Endres, Norbert Idempotente Quasigruppen und Gruppoide. [Idempotent quasigroups and groupoids] **89c:20102**
Galkin, V. M. Quasigroups. (Russian) **89k:20103**
Goodaire, E. G. (*with* Parmenter, M. M.) Semisimplicity of alternative loop rings. **89e:20119**
— (*with* Polcino Milies, César) Torsion units in alternative loop rings. **89m:20084**
— *see also* **Chein, Orin, 89i:20110**
Gvaramiya, A. A. Stable formulas on quasigroups. (Ukrainian. Russian summary) (Not in MR)
Izbash, V. I. Structural definability of disassociative commutative torsion-free loops. (Russian) **89f:20079**
Kepka, T. *see* **Drápal, A., 89b:20144**
Kitoroagè, M. D. Some subquasigroups of A-quasigroups. (Russian) **89k:20104**
Korchmaros, Gabor (*with* Saeli, Donato) Commutative loops of exponent two and involutorial 3-nets with identity. **89j:20075**
Lacaze, Jacqueline *see* **Bénéteau, L., 89f:20078**
Leong, Fook On M loops. **89c:20103**
Lindner, C. C. *see* **Teirlinck, Luc, 89e:20123**
Lyakh, I. V. On the definition of the concept of the homotopy of orthogonal systems of quasigroups. (Russian) **89i:20111**
Monosova, G. Some quasigroup identities that are invariant under quasigroup isotopy. (Russian) **89h:20098**
Němec, P. Arithmetical forms of quasigroups. **89k:20105a**
— Commutative Moufang loops corresponding to linear quasigroups. **89k:20105b**
Niemenmaa, Markku Upper bounds on the distance between groups and quasigroups. **89f:20080**
Parmenter, M. M. *see* **Goodaire, E. G., 89e:20119**
Polcino Milies, César *see* **Goodaire, E. G., 89m:20084**
Polonijo, Mirko Ward double quasigroups. **89c:20104**
Purtill, Mark On Moufang loops of order the product of three odd primes. **89e:20120**
Razafimanantsoa, Gérard *see* **Bénéteau, L., 89d:20055**
Sabinin, L. V. Nonlinear geometric algebra. (Russian) **89e:20121**
Sabinina, L. L. On the theory of F-quasigroups. (Russian) **89i:20112**
Saeli, Donato *see* **Korchmaros, Gabor, 89j:20075**
Senkevich, T. Ya. A generalization of the concept of a quasigroup. (Russian) **89f:20081**
Sharma, Bhagirath Lal Finite Bol loops of order $2pq$. **89b:20145**
— Normal subloop of a finite Bol loop of order pq. **89g:20109**
— (*with* Solarin, A. R. T.) On the classification of Bol loops of order $3p$ ($p > 3$). **89g:20110**
— *see also* **Solarin, A. R. T., 89e:20122**
Shcherbakov, V. A. A class of medial quasigroups. (Russian) **89h:20099**
Shchukin, K. K. Nilpotency of the multiplication group of an A-loop. (Russian) **89f:20082**
Solarin, A. R. T. (*with* Sharma, Bhagirath Lal) On the identities of Bol-Moufang type. **89e:20122**
— *see also* **Sharma, Bhagirath Lal, 89g:20110**
Teirlinck, Luc (*with* Lindner, C. C.) The construction of large sets of idempotent quasigroups. **89e:20123**
Ušan, Janez A_t-groupoids. **89g:20111**

Items with secondary classifications in 20N05

Basile, Alessandro (*with* Brutti, Paolo) Loop associated with a resolvable transversal design. (Italian) **89i:05044**
Belousov, V. D. (*with* Sokolov, E. I.) n-ary inverse quasigroups (I-quasigroups). (Russian) **89g:20112**
Brutti, Paolo *see* **Basile, Alessandro, 89i:05044**
Bulgakov, D. N. Topological loops defined by a system of continuous quasinorms. (Russian) **89f:22003**
Danil'chenko, A. F. *see* **Kuznetsov, Aleksandr Vladimirovich; et al., 89a:03054**
Galkin, V. M. Compact quasigroups. **89j:22002**
Goodaire, E. G. Circle loops of radical alternative rings. **89e:17028**
Kitazume, Masaaki Code loops and even codes over F_4. **89k:94071**
Krapež, A. (*with* Taylor, Mark Adrian) Belousov equations on quasigroups. **89a:39012**
Kuznetsov, Aleksandr Vladimirovich (*with* Danil'chenko, A. F.; Negru, I. S.; Pavlova, E. A.) Some combinatorial questions concerning functional constructions in k-valued logic. (Russian) **89a:03054**
Lyakh, I. V. Configurations of rank eight in 3-nets. (Russian) **89i:51003**
Mendelsohn, N. S. (*with* Padmanabhan, R.; Wolk, Barry) Straight edge constructions on planar cubic curves. **89c:51023**

Mikheev, P. O. Idempotent quasigroups and manifolds with geodesics. (Russian) **89f:53066**
Negru, I. S. *see* **Kuznetsov, Aleksandr Vladimirovich; et al., 89a:03054**
Padmanabhan, R. *see* **Mendelsohn, N. S.; et al., 89c:51023**
Pavlova, E. A. *see* **Kuznetsov, Aleksandr Vladimirovich; et al., 89a:03054**
Sabinin, L. V. (*with* Shelekhov, A. M.) On the problem of the universality of the identity of geometricity. (Russian) **89f:22004**
Sbitneva, L. V. Conditions for the right mono-alternativity of a geometric odule. (Russian) **89f:22005**
Shelekhov, A. M. *see* **Sabinin, L. V., 89f:22004** *and* **Webs and quasigroups, 89a:53005**
Sokolov, E. I. *see* **Belousov, V. D., 89g:20112**
Sörensen, Kay Über pseudoaffine Räume. (English summary) [On pseudoaffine spaces] **89f:51011**
Taylor, Mark Adrian *see* **Krapež, A., 89a:39012**
Wolk, Barry *see* **Mendelsohn, N. S.; et al., 89c:51023**
Zizioli, Elena Fibered incidence loops and kinematic loops. **89a:51038**
— An independence theorem on the conditions for incidence loops. **89h:51005**

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Webs and quasigroups ★ Ткани и квазигруппы. (Russian) [Webs and quasigroups] **89a:53005**

20N07 Mappings of loops

Items with secondary classifications in 20N07

Englert, F. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.; Spindel, Ph.) Loop algebras and superalgebras based on S^7. **89i:17016**
Sevrin, A. *see* **Englert, F.; et al., 89i:17016**
Spindel, Ph. *see* **Englert, F.; et al., 89i:17016**
Troost, W. *see* **Englert, F.; et al., 89i:17016**
Van Proeyen, A. *see* **Englert, F.; et al., 89i:17016**

20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Dudek, Izabela M. On ternary semigroups connected with para-associative rings. **89b:20146**
Ušan, Janez A_l^m- and A_l-3-quasigroups. (Russian. Serbo-Croatian summary) **89e:20124a**
— A class of A_l^m-3-quasigroups. (Russian. Serbo-Croatian summary) **89e:20124b**

Items with secondary classifications in 20N10

Hoehnke, Hans-Jürgen Algebraic problems of Brandt's symbolics. **89b:18009**
Shaw, Ronald Ternary vector cross products. **89c:15038**

20N15 *n*-ary systems

Belousov, V. D. (*with* Sokolov, E. I.) *n*-ary inverse quasigroups (I-quasigroups). (Russian) **89g:20112**
Celakoski, N. (*with* Janeva, B.) Vector-valued associatives. **89f:20083**
Cheremushkin, A. V. Canonical decomposition of *n*-ary quasigroups. (Russian) **89g:20113**
Cho, Jung R. Idempotent medial *n*-groupoids defined on fields. **89k:20106**
Corovei, I. Relations between the homomorphisms of $(m+1)$-semigroups and the homomorphisms of their $(n+1)$-ary extensions. **89m:20085**
Čupona, Ǵ. (*with* Markovski, S.; Janeva, B.) Post theorem for vector-valued semigroups. **89e:20125**
Dimovski, Dončo On $(3,2)$-groups. **89d:20056**
— Free vector-valued semigroups. **89e:20126**
Djurović, Ivo On homotopies of *n*-ary groupoids with division. **89e:20127**
Gal′mak, A. M. On semi-invariant subgroups of *n*-ary groups. (Russian) **89a:20068**
— On subgroups of a Hamiltonian *n*-ary group. (Russian) **89b:20147**
— Abelian *n*-ary groups and their generalizations. (Russian) **89j:20076**
Gavrilov, V. V. On nonsemiabelian *n*-ary groups all of whose subgroups are semiabelian. (Russian) **89a:20069**
Gluskin, L. M. Polyadic semigroups. (Russian) **89a:20070a**
Janeva, B. *see* **Čupona, Ǵ.; et al., 89e:20125** *and* **Celakoski, N., 89f:20083**
Kočinac, Ljubiša *see* **Žižović, M. R., 89i:20113**
Kolesnikov, O. V. Polyadic semigroups. (Russian) **89a:20070b**
Kržovski, Pano Some characterizations of *n*-bands. **89d:20057**
Markovski, S. *see* **Čupona, Ǵ.; et al., 89e:20125**
Michalski, Jacek A note on the functor der. (Serbo-Croatian summary) **89c:20105**
— Improvement theorems for polyadic groups *H*-derived from groups. **89g:20114**
Prodan, N. I. *see* **Shakaleo, Manuèl′ Pedro, 89g:20115**
Rusakov, S. A. *n*-adic orders of *r*-multiple skew elements of type *k*. (Russian) **89c:20106**
— Sequences of mappings and the existence of a symmetric *n*-ary group. (Russian) **89d:20058**
Shakaleo, Manuèl′ Pedro (*with* Prodan, N. I.) Elementary properties of *n*-ary groupoids with division. (Russian) **89g:20115**
Sokolov, E. I. *see* **Belousov, V. D., 89g:20112**
Syrbu, P. N. Self-orthogonality of *n*-ary operations. (Russian) **89g:20116**
Trenčevski, Kostadin A note on nonexistence for some classes of continuous $(3,2)$ groups. **89g:20117**
Tyutin, V. I. *n*-ary groups with *f*-central series. (Russian) **89k:20107**
Žižović, M. R. (*with* Kočinac, Ljubiša) Some remarks on *n*-groups. (Serbo-Croatian summary) **89i:20113**

Items with secondary classifications in 20N15

Both, N. *see* **Purdea, I., 89m:08002**
Purdea, I. (*with* Both, N.) Power algebra of a universal algebra. **89m:08002**

20N99 None of the above, but in this section

Bhattacharya, Prabir Fuzzy subgroups: some characterizations. II. **89h:20100b**
— Fuzzy subgroups: some characterizations. **89h:20100a**
Buys, A. Radicals of Ω-groups. **89e:20128**
Chakraborty, A. B. *see* **Choudhury, F. P.; et al., 89m:20086**
Choudhury, F. P. (*with* Chakraborty, A. B.; Khare, S. S.) A note on fuzzy subgroups and fuzzy homomorphism. **89m:20086**
Corsini, Piergiulio Finite canonical hypergroups with partial scalar identities. (Italian. English summary) **89i:20114**
De Salvo, Mario On finitely generated commutative hypergroups. (Italian. English summary) **89f:20084**
— Finite hypergroups of constant length. (Italian. English summary) **89e:20129**
— Commutative finite *A*-hypergroups of length two. **89f:20085**
Djurović, Ivo Strict nuclei and pseudoautomorphisms of groupoids with division. (Serbo-Croatian summary) **89j:20077**
Drbohlav, K. (*with* Kepka, T.; Němec, P.) Associativity semihypergroups and related problems. **89f:20086**
Freni, Domenico Sur les hypergroupes cambistes. (Italian summary) [On exchange hypergroups] **89b:20148**
Guţan, Marin Simplifiable cyclic semihypergroups. **89g:20118**
Ioulidis, Stavros *see* **Mittas, Jean, 89b:20149**
Kepka, T. *see* **Drbohlav, K.; et al., 89f:20086**
Kessoglidis, M. *see* **Konguetsof, L.; et al., 89c:20107**
Khare, S. S. *see* **Choudhury, F. P.; et al., 89m:20086**
Konguetsof, L. (*with* Vougiouklis, Th.; Kessoglidis, M.; Spartalis, St.) On cyclic hypergroups with period. (Russian and Czech summaries) **89c:20107**
— *see also* **Vougiouklis, Th., 89e:20132**
Lyapin, E. S. Semigroup extensions of partial groupoids. **89g:20119**
Meng, Dao Ji Fuzzy groups and subgroups of finite groups. (Chinese. English summary) **89h:20101**
Migliorato, Renato Isomorphisms of finite hypergroupoids. **89c:20108**
Mittas, Jean Hypergroupes polysymétriques canoniques. [Canonical polysymmetric hypergroups] **89g:20120**
— (*with* Ioulidis, Stavros) Sur les hypergroupes polysymétriques commutatifs. (English and Italian summaries) [Commutative polysymmetric hypergroups] **89b:20149**
Němec, P. *see* **Drbohlav, K.; et al., 89f:20086**
Peng, Xian Tu Categories of fuzzy groups. (Chinese. English summary) **89h:20102**
Romanowska, Anna (*with* Roszkowska, Barbara) On some groupoid modes. **89e:20130**
Roszkowska, Barbara The lattice of varieties of symmetric idempotent entropic groupoids. **89e:20131**
— *see also* **Romanowska, Anna, 89e:20130**
Serafimidis, Karolos Sur les hypergroupes canoniques ordonnés et strictement ordonnés. [Ordered and strictly ordered canonical hypergroups] **89j:20078**
Šešelja, B. *see* **Vojvodić, G., 89d:20059**
Shen, Ji Zhong Matrix representation of *L*-sets on groups. (Chinese. English summary) **89h:20103**
Spartalis, St. *see* **Konguetsof, L.; et al., 89c:20107** *and* **Vougiouklis, Th., 89e:20133**
Vojvodić, G. (*with* Šešelja, B.) *L*-valued congruences and *L*-valued normal subgroups. (Serbo-Croatian summary) **89d:20059**
Vougiouklis, Th. Representations of hypergroups. Hypergroup algebra. **89a:20071**
— (*with* Konguetsof, L.) *P*-hypergroupes. (Russian and Czech summaries) [*P*-hypergroups] **89e:20132**
— Generalization of *P*-hypergroups. (Italian summary) **89g:20121**
— Groups in hypergroups. **89a:20072**
— (*with* Spartalis, St.) *P*-cyclic hypergroups with three characteristic elements. **89e:20133**
— *see also* **Konguetsof, L.; et al., 89c:20107**
Wang, Rui Pu Some results on resemblance relation matrices and products of isogenous fuzzy subgroups. (Chinese) **89d:20060**
Wu, Wang Ming Fuzzy congruences and normal fuzzy subgroups. (Chinese summary) **89k:20108**

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Fuchs, Peter Rudolf ★ Ultraproducts of Ω-groups (omega groups). **89e:03046**
Galić, Radoslav *T*-*k*-seminets. **89d:08006**
Hofer, Gerhard Principal series and minimal group automata. **89g:68051**
Hussain, Imdad A fixed point theorem for group-type algebras. **89f:08001**
Konguetsof, L. (*with* Vougiouklis, Th.) Constructions d'hyperanneaux à partir d'anneaux. (English, Russian and Czech summaries) [Constructions of hyperrings from rings] **89f:16058**
Micale, Biagio On the centralizer of the system of operations of certain algebras. (Italian. English summary) **89g:08005**
Pym, John Semigroup structure in Stone-Čech compactifications. **89b:54043**
Saliĭ, V. N. Representation of associations by complete one-to-one quasi-Boolean transformations. (Russian) **89g:08008**
Serafimidis, Karolos Introduction aux hypergroupes canoniques réticulés. [Introduction to reticulated canonical hypergroups] **89b:06016**
Vougiouklis, Th. *see* **Konguetsof, L., 89f:16058**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Elementary exposition; textbooks

Gorbatsevich, V. V. (*with* Onishchik, A. L.) Lie groups of transformations. (Russian) (*see* **89m:22010**)

Mneimné, R. (*with* Testard, Frédéric) ★ Introduction à la théorie des groupes de Lie classiques. (French) [Introduction to the theory of classical Lie groups] **89b:22001**

Onishchik, A. L. *see* **Vinberg, È. B.**, (**89m:22010**) *and* **Gorbatsevich, V. V.**, (**89m:22010**)

Testard, Frédéric *see* **Mneimné, R.**, **89b:22001**

Vinberg, È. B. (*with* Onishchik, A. L.) Foundations of the theory of Lie groups. (Russian) (*see* **89m:22010**)

Items with secondary classifications in 22–01

Bourbaki, Nicolas ★ Lie groups and Lie algebras. Chapters 1–3. **89k:17001**

Göckeler, M. (*with* Schücker, T.) ★ Differential geometry, gauge theories, and gravity. **89d:53124**

Helgason, Sigurdur ★ Группы и геометрический анализ. (Russian) [Groups and geometric analysis] **89g:22014**

(Kuchment, P. A.) *see* **Helgason, Sigurdur**, **89g:22014**

McCarty, George ★ Topology. **89b:54002**

Schücker, T. *see* **Göckeler, M.**, **89d:53124**

22–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 22–02

Helgason, Sigurdur ★ Группы и геометрический анализ. (Russian) [Groups and geometric analysis] **89g:22014**

(Kuchment, P. A.) *see* **Helgason, Sigurdur**, **89g:22014**

Wallach, Nolan R. ★ Real reductive groups. I. **89i:22029**

22–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 22–03

Borel, Armand Hermann Weyl and Lie groups. (*see* **89a:01046**)

Boseck, Helmut Marius Sophus Lie und die nicht kommutative harmonische Analysis. [Marius Sophus Lie and noncommutative harmonic analysis] **89b:01017**

Hawkins, Thomas Cayley's counting problem and the representation of Lie algebras. **89f:01033**

Pier, Jean-Paul L'apparition de la théorie des groupes topologiques. [The appearance of the theory of topological groups] **89d:01051**

(Weyl, Hermann) *see* **Borel, Armand**, (**89a:01046**)

22–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 22–04

Flerov, Yu. A. A group-theoretic method for the analysis of the invariance of algorithms for the synthesis of curves. (Russian) **89d:65029**

Pittaluga, Marilena (*with* Strickland, Elisabetta) On computers and modular representations of $\mathrm{SL}_n(K)$. **89k:22025**

Strickland, Elisabetta *see* **Pittaluga, Marilena**, **89k:22025**

22–06 Proceedings, conferences, etc.

(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions**, **89f:22001**

Items listed otherwise than by author

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 21. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 21] **89f:22001**

Eigenfunctions on symmetric spaces and representations of Lie groups ★ Tai sho kukan ue no koyu kansu to Rii gun no hyogen. (Japanese) [Eigenfunctions on symmetric spaces and representations of Lie groups] **89c:22001**

Geometric realizations of group representations ★ Geometric realizations of group representations. (Japanese) **89a:22001**

Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 21. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 21] **89f:22001**

Symposium:

Eigenfunctions on Symmetric Spaces and Representations of Lie Groups ★ Tai sho kukan ue no koyu kansu to Rii gun no hyogen. (Japanese) [Eigenfunctions on symmetric spaces and representations of Lie groups] **89c:22001**

Geometric realizations of group representations ★ Geometric realizations of group representations. (Japanese) **89a:22001**

Items with secondary classifications in 22–06

(Cowling, Michael) *see* **Conference: Harmonic analysis and operator algebras**, **89b:00009** *and* **Miniconference: Harmonic Analysis and Operator Algebras**, **89b:00024**

(Doebner, H.-D.) *see* **Group theoretical methods in physics**, **89g:81001**

(Eymard, Pierre) *see* **Harmonic analysis**, **89f:43001**

(Hennig, J. D.) *see* **Group theoretical methods in physics**, **89g:81001**

(Man′ko, V. I.) *see* **Group theoretical methods in physics**, **89k:81002**

(Markov, M. A.) *see* **Group theoretical methods in physics**, **89k:81002**

(Meaney, C.) *see* **Conference: Harmonic analysis and operator algebras**, **89b:00009** *and* **Miniconference: Harmonic Analysis and Operator Algebras**, **89b:00024**

(Moran, William) *see* **Conference: Harmonic analysis and operator algebras**, **89b:00009** *ana* **Miniconference: Harmonic Analysis and Operator Algebras**, **89b:00024**

(Palev, T. D.) *see* **Group theoretical methods in physics**, **89g:81001**

(Pier, Jean-Paul) *see* **Harmonic analysis**, **89f:43001**

(Shabad, A. E.) *see* **Group theoretical methods in physics**, **89k:81002**

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C^***-algebras and applications** ★ C^*-daisu to sono oyo. (Japanese) [C^*-algebras and applications] **89i:46003**

Canberra ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**

— ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**

Colloquium:

Group Theoretical Methods in Physics ★ Group theoretical methods in physics. **89g:81001**

Conference:

Harmonic analysis and operator algebras ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**

Harmonic Analysis, Symmetric Spaces and Probability Theory ★ Symposia Mathematica Vol. XXIX. **89b:00028**

Cortona ★ Symposia Mathematica. Vol. XXIX. **89b:00028**

Group theoretical methods in physics ★ Group theoretical methods in physics. Vol. 1–3. **89k:81002**

— ★ Group theoretical methods in physics. **89g:81001**

Harmonic analysis ★ Harmonic analysis. **89f:43001**

Harmonic analysis and number theory ★ Harmonic analysis and number theory. (Japanese) **89a:11005**

Lecture Notes in Mathematics ★ Harmonic analysis. **89f:43001**

Lecture Notes in Physics ★ Group theoretical methods in physics. **89g:81001**

Luxembourg ★ Harmonic analysis. **89f:43001**

Miniconference:

Harmonic Analysis and Operator Algebras ★ Miniconferences on harmonic analysis anc operator algebras. **89b:00024**

Seminar:

Group Theoretical Methods in Physics ★ Group theoretical methods in physics. Vol. 1– **89k:81002**

Symposia Mathematica ★ Symposia Mathematica. Vol. XXIX. **89b:00028**

Symposium:

C^***-Algebras and Their Applications** ★ C^*-daisu to sono oyo. (Japanese) [C^*-algebras an applications] **89i:46003**

Harmonic Analysis ★ Harmonic analysis. **89f:43001**

Harmonic Analysis and Number Theory ★ Harmonic analysis and number theory. (Japanese) **89a:11005**

Varna ★ Group theoretical methods in physics. **89g:81001**

Zvenigorod ★ Group theoretical methods in physics. Vol. 1–3. **89k:81002**

22Axx Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 47D35.}

22A05 Structure of general topological groups

Arkhangel′skiĭ, A. V. Algebraic objects generated by a topological structure. (Russian) **89e:22001**

Bohn, S. Elwood (*with* Lee, Jong) Errata: "Semitopological groups" [Amer. Math. Monthly 72 (1965), 996–998; MR 32 #7672]. **89d:22001**

Cleary, Joan (*with* Morris, Sidney A.) Trinity... a tale of three cardinals. **89a:22002**

Comfort, W. W. Some progress and problems in topological groups. **89h:22001**

— (*with* Robertson, Lewis C.) Extremal phenomena in certain classes of totally bounded groups. **89i:22001**

Lee, Jong *see* **Bohn, S. Elwood**, **89d:22001**

Morris, Sidney A. (*with* Thompson, H. B.) Sequential conditions and free products of topological groups. **89h:22002**

— *see also* **Cleary, Joan**, **89a:22002**

Pestov, V. G. A remark on the topologization of groups. (Russian) **89e:22002**

— Thin sets in topological groups and a new criterion for precompactness. (Russian) **89b:22002**

— The category of Tikhonov spaces is embedded in the category of topological groups as a subcategory. (Russian. English and Georgian summaries) **89g:22001**

Remus, Dieter (*with* Stoyanov, Luchezar N.) On the completion of topological groups. **89c:22002**

— On the number of Hausdorff group topologies on infinite abelian and free groups. **89c:22003**

— Topological groups without nontrivial characters. **89f:22002**

Robertson, Lewis C. *see* **Comfort, W. W.**, **89i:22001**

Sim, Myong Hwa On the rank of compact topological group. (Korean. English summary) (Not in MR)

Stoyanov, Luchezar N. Weak periodicity and minimality of topological groups. (Bulgarian summary) **89a:22003**

— *see also* **Remus, Dieter**, **89c:22002**

Thompson, H. B. *see* **Morris, Sidney A.**, **89h:22002**

Tkachenko, M. G. Free topological groups do not admit κ-metrization. (Russian) **89h:22003**

— Strong collectionwise normality and countable compactness in free topological groups. (Russian) **89g:22002**

— Compactness type properties in topological groups. **89h:22004**

Tkachuk, V. V. Homeomorphisms of free topological groups do not preserve compactness. (Russian) **89c:22004**

Ursul, M. I. An imbedding of a topological group as a quasicomponent in another group. (Russian) **89h:22005**

Vaserstein, L. N. Normal subgroups of gauge groups. **89m:22001**

Items with secondary classifications in 22A05

Arkhangel'skiĭ, A. V. Topological homogeneity. Topological groups and their continuous images. (Russian) **89b:54004**

— Continuous images of Lindelöf Σ-groups. **89a:54012**

Blasco, José Luis A note on inverse-closed subalgebras of $C(X)$. **89g:54037**

Borges, Carlos R. LECs, local mixers, topological groups and special products. **89e:54029**

Brunner, Norbert Automatic transfer between permutation-models. **89c:03080**

Comfort, W. W. Small spaces which "generate" large spaces. **89j:54015**

Dikranjan, Dikran Noncompleteness measure of convergence abelian groups and completeness of the coarse abelian groups. **89f:54006**

Frič, Roman Products of coarse convergence groups. **89i:22004**

Gul'ko, S. P. (*with* Okunev, O. G.) Local compactness and M-equivalence. (Russian) **89j:54024**

Okunev, O. G. *see* **Gul'ko, S. P., 89j:54024**

Stavrakas, G. A. Topological groups and K-Souslin sets. **89g:22006**

Uspenskiĭ, V. V. Compact quotient-spaces of topological groups, and Haydon spectra. (Russian) **89h:54003**

22A10 Analysis on general topological groups

Alas, O. T. On the number of compact subsets in topological groups. **89c:22005**

Items with secondary classifications in 22A10

Chakrabarti, Sadasiv (*with* Lahiri, B. K.) Local measurability in topological groups. (Serbo-Croatian summary) **89e:28014**

Christensen, Jens Peter Reus (*with* Fischer, Pal) Joint continuity of measurable biadditive mappings. **89d:43006**

Fischer, Pal *see* **Christensen, Jens Peter Reus, 89d:43006**

Lahiri, B. K. *see* **Chakrabarti, Sadasiv, 89e:28014**

Ren, Yi Qiang An extension of the Ascoli-Arzelà theorem. (Chinese) **89k:46036**

22A15 Structure of topological semigroups

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22A20 Analysis on topological semigroups

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Sakai, Koukichi Annihilators in abelian inverse semigroups. **89m:22003**

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22A25 Representations of general topological groups and semigroups

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22A26 Topological semilattices, lattices and applications [see also 06B30, 06F30]

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Beer, Gerald Increasing semicontinuous functions and compact topological lattices. **89e:54079**

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22A30 Other topological algebraic systems and their representations

Bulgakov, D. N. Topological loops defined by a system of continuous quasinorms. (Russian) **89f:22003**

Dikranjan, Dikran (*with* Frič, Roman; Zanolin, Fabio) On convergence groups with dense coarse subgroups. **89c:22009**

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22A99 None of the above, but in this section

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22Bxx Locally compact abelian (LCA) groups

22B05 General properties and structure of LCA groups

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22B10 Structure of group algebras of LCA groups

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22C05 Compact groups

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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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22D10 Unitary representations of locally compact groups

Assar, Ali-Reza On Mackey's subgroup theorem. **89e:22008**

Bekka, Mohammed E. B. (*with* Kaniuth, Eberhard) Irreducible representations of locally compact groups that cannot be Hausdorff separated from the identity representation. **89j:22005**

Cowling, Michael On the characters of unitary representations. **89e:22009**

— (*with* Haagerup, Uffe; Howe, Roger E.) Almost L^2 matrix coefficients. **89i:22008**

Funakoshi, Shunsuke On a decomposition theory of representations and a Plancherel formula for locally compact groups. **89b:22007**

Haagerup, Uffe *see* **Cowling, Michael; et al., 89i:22008**

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Gefter, S. L. (*with* Golodets, V. Ya.) Actions of T-groups and factors of type II_1 with property T. (Russian) **89k:46080**
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Gröchenig, Karlheinz *see* **Feichtinger, Hans G., 89h:46035**
Kuhn, Gabriella Some more examples of Plancherel measures on discrete groups. (Italian summary) **89g:22007**
Lyubarskiĭ, M. G. Motions in vector G-bundles (linear extensions) that are locally bounded and locally disjoint from zero. (Russian) **89k:55035**
Pedersen, Steen Spectral theory of commuting selfadjoint partial differential operators. **89m:35163**
Rosenblatt, Joseph *see* **Bergelson, Vitaly, 89g:28029**
Verdiev, Ĭ. A. Multiplicative integrals of representations of PSU(1, 1), SU(2) and vertex operators. **89g:22029**

22D12 Other representations of locally compact groups

Araki, Huzihiro On pseudo-unitary representations. **89b:22008**
Baggett, L. W. (*with* Carey, A. L.; Moran, William; Ramsay, Arlan) Nonmonomial representations of abelian groups with multipliers (announcement). (*see* **89b:00009**)
Bożejko, Marek Uniformly bounded representations of free groups. **89a:22009**
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22D15 Group algebras of locally compact groups

Carcano, Giovanna A commutativity condition for algebras of invariant functions. (Italian summary) **89h:22011**

Items with secondary classifications in 22D15

Feichtinger, Hans G. Banach spaces of distributions defined by decomposition methods. II. **89a:46053**
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— Funktionenalgebren auf Bahnen nilpotenter Gruppen. [Function algebras on orbits of nilpotent groups] **89c:43012**
Losert, Viktor (*with* Rindler, H.) Conjugation-invariant means. **89d:43001**
Poguntke, Detlev Spectral synthesis of orbits of compact groups. **89j:43006**
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22D20 Representations of group algebras

Items with secondary classifications in 22D20

Funakoshi, Shunsuke On a decomposition theory of representations and a Plancherel formula for locally compact groups. **89b:22007**
Kumar, Ajay Beurling algebras and structure of locally compact groups. **89d:22003**
Losert, Viktor (*with* Rindler, H.) Conjugation-invariant means. **89d:43001**
Rindler, H. *see* **Losert, Viktor, 89d:43001**

22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Kuhn, Gabriella Some more examples of Plancherel measures on discrete groups. (Italian summary) **89g:22007**
Kumar, Ajay Beurling algebras and structure of locally compact groups. **89d:22003**
Wang, Xiaolu Les C^*-algèbres d'une classe de groupes de Lie résolubles. (English summary) [The C^*-algebras of a class of solvable Lie groups] **89i:22009**
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— On Connes' property T for von Neumann algebras. **89h:46086**
Cohen, Joel M. (*with* Figà-Talamanca, Alessandro) Idempotents in the reduced C^*-algebra of a free group. **89g:46095**
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Enomoto, Masatoshi (*with* Watatani, Yasuo) Reduced group C^*-algebras with the metric approximation property by positive maps. **89f:46114**
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Gefter, S. L. (*with* Golodets, V. Ya.) Actions of T-groups and factors of type II_1 with property T. (Russian) **89k:46080**
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Griener-Guillod, Sylvie Sous-groupes maximaux de groupes classiques associés à certaines C^*-algèbres. [Maximal subgroups of classical groups associated with certain C^*-algebras] **89d:46067**
Jones, V. F. R. Hecke algebra representations of braid groups and link polynomials. **89c:46092**
Julg, Pierre (*with* Valette, Alain) Fredholm modules associated to Bruhat-Tits buildings. **89g:22026**
Karlovich, Yu. I. A local-trajectory method for the study of invertibility in C^*-algebras of operators with discrete groups of shifts. **89e:46068**
Lau, A. T. (*with* Paterson, Alan L. T.) Operator theoretic characterizations of $[IN]$-groups and inner amenability. **89f:43003**
Mansfield, Kevin Induced representations of crossed products by coactions. **89m:46108**
Nakazato, Hiroshi Invariant dissipative operators on locally compact groups. **89e:46069**
Packer, Judith A. C^*-algebras generated by projective representations of the discrete Heisenberg group. **89h:46079**
Parker, Ellen Maycock The Brauer group of graded continuous trace C^*-algebras. **89h:46080**
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Phillips, N. Christopher ★ Equivariant K-theory and freeness of group actions on C^*-algebras. **89k:46086**
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Rieffel, Marc A. Projective modules over higher-dimensional noncommutative tori. **89m:46110**
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Seifert, Benedict Sur certaines traces factorielles sur les algèbres de Hecke classiques. (English summary) [On some factor traces on classical Hecke algebras] **89k:46074**
Sheu, Albert Jeu-Liang Singular foliation C^*-algebras. **89e:46078**
Sinel′shchikov, S. D. *see* **Golodets, V. Ya., 89d:22004**
Stempak, Krzysztof An algebra associated with the generalized sub-Laplacian. **89e:47073**
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22D30 Induced representations

Kunze, R. A. On the Frobenius reciprocity theorem for square integrable representations of nonunimodular groups. **89e:22011**

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Colojoară, Ion An imprimitivity theorem for hypergroups. **89a:22007**
Helson, Henry (*with* Merrill, Kathy D.) Cocycles on the circle. II. **89j:22008**
Kaniuth, Eberhard On topological Frobenius reciprocity for locally compact groups. **89d:22002**
Lion, Gérard Résolubilité d'équations différentielles et représentations induites. [Solvability of differential equations and induced representations] **89a:22017**
Merrill, Kathy D. *see* **Helson, Henry, 89j:22008**
Stark, Hans-Georg A note on induced group representations and covariant representations of C^*-algebras. **89d:46070**
Šťovíček, Pavel Systems of imprimitivity for the group of diffeomorphisms. **89h:22042**

22D35 Duality theorems

Cowling, Michael On isomorphisms of algebras of operators. **89c:22013**
Doplicher, S. (*with* Roberts, John E.) Duals of compact Lie groups realized in the Cuntz algebras and their actions on C^*-algebras. **89a:22011**
Maurin, Krzysztof Duality (polarity) in mathematics, physics and philosophy. **89m:22005**
McMullen, John Roderich Duality for compact connected groups and semisimple Lie algebras. (Italian summary) **89f:22006**
Roberts, John E. *see* **Doplicher, S., 89a:22011**

Items with secondary classifications in 22D35

Cleary, Joan (*with* Morris, Sidney A.) Topologies on locally compact groups. **89j:22004**
Day, B. J. Onto Gel′fand transformations. (French summary) **89e:18015**
Morris, Sidney A. *see* **Cleary, Joan, 89j:22004**
Pashenkov, V. V. Homogeneous and inhomogeneous dualities. (Russian) **89m:46113**

22D40 Ergodic theory on groups [see also 28Dxx and 43A60]

Conze, Jean-Pierre (*with* Lesigne, Emmanuel) Sur un théorème ergodique pour des mesures diagonales. (English summary) [On an ergodic theorem for diagonal measures] **89e:22012**
Fëdorov, A. L. *see* **Vinokurov, V. G.; et al., 89k:22009**
Gefter, S. L. Cohomology of the ergodic action of a T-group on the homogeneous space of a compact Lie group. (Russian) **89f:22007**
— (*with* Golodets, V. Ya.; Sinel′shchikov, S. D.) The fundamental group for ergodic actions of semisimple Lie groups and of their lattices. (Russian. English summary) **89j:22007**
Golodets, V. Ya. (*with* Sinel′shchikov, S. D.) Automorphisms of ergodic groupoids, and semidirect products. (Russian) **89d:22004**
— *see also* **Gefter, S. L.; et al., 89j:22007**
Helson, Henry (*with* Merrill, Kathy D.) Cocycles on the circle. II. **89j:22008**
Kaĭmanovich, V. A. Lyapunov exponents, symmetric spaces and a multiplicative ergodic theorem for semisimple Lie groups. (Russian. English summary) **89m:22006**
Lesigne, Emmanuel *see* **Conze, Jean-Pierre, 89e:22012**
Merrill, Kathy D. *see* **Helson, Henry, 89j:22008**

Milnes, Paul Minimal and distal functions on semidirect products of groups. **89k:22008**
Rubshtein, B. A. *see* **Vinokurov, V. G.; et al., 89k:22009**
Sinel′shchikov, S. D. *see* **Golodets, V. Ya., 89d:22004** *and* **Gefter, S. L.; et al., 89j:22007**
Starkov, A. N. Ergodic decompositions for homogeneous flows. **89i:22010**
— Solvable homogeneous flows. **89b:22009**
— Reduction of the theory of homogeneous flows to the case of a discrete isotropy subgroup. **89m:22007**
Tempel′man, A. A. ★ Эргодические теоремы на группах. (Russian) [Ergodic theorems on groups] **89m:22008**
Vershik, A. M. Measurable realizations of automorphism groups and integral representations of positive operators. (Russian) **89i:22011**
Vinokurov, V. G. (*with* Rubshtein, B. A.; Fëdorov, A. L.) Normal subgroupoids and extensions of measure groupoids. **89k:22009**
Zimmer, Robert J. Amenable actions and dense subgroups of Lie groups. **89a:22012**

Items with secondary classifications in 22D40

Anantharaman-Delaroche, Claire Systèmes dynamiques non commutatifs et moyennabilité. [Noncommutative dynamical systems and amenability] **89f:46127**
Bezuglyi, S. I. Outer conjugation of the actions of countable amenable groups. (Russian) **89a:46135**
Chojnacki, Wojciech Some nontrivial cocycles. **89e:43015**
Coquet, Jean (*with* Liardet, Pierre) A metric study involving independent sequences. **89e:11043**
Fëdorov, A. L. *see* **Veksler, A. S., 89c:28028**
Gefter, S. L. (*with* Golodets, V. Ya.) Actions of T-groups and factors of type II_1 with property T. (Russian) **89k:46080**
Golodets, V. Ya. *see* **Gefter, S. L., 89k:46080**
del Junco, A. (*with* Rudolph, Daniel J.) On ergodic actions whose self-joinings are graphs. **89e:28029**
Liardet, Pierre *see* **Coquet, Jean, 89e:11043**
Patterson, S. J. Lectures on measures on limit sets of Kleinian groups. **89b:58122**
Rudolph, Daniel J. *see* **del Junco, A., 89e:28029**
Seifert, Benedict Sur certaines traces factorielles sur les algèbres de Hecke classiques. (English summary) [On some factor traces on classical Hecke algebras] **89k:46074**
Veksler, A. S. (*with* Fëdorov, A. L.) On the homomorphisms of locally compact groups in the exterior group of a measurable equivalence relation. (Russian) **89c:28028**
Zimmer, Robert J. Arithmeticity of holonomy groups of Lie foliations. **89c:22019**

22D45 Automorphism groups of locally compact groups

Items with secondary classifications in 22D45

Vershik, A. M. Measurable realizations of automorphism groups and integral representations of positive operators. (Russian) **89i:22011**

22D99 None of the above, but in this section

Edamatsu, Takashi Differential operators on locally compact groups. **89j:22009**

Items with secondary classifications in 22D99

Kudryashov, V. V. Spectral projectors of angular momentum in the representation of a phase space. (Russian. English summary) **89h:81089**
Mukhin, V. V. Embedding of topological semigroups in locally compact groups, and invariant measures on semigroups. (Russian) **89h:22007**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

Bleuler, Konrad Group theory and differential methods in contemporary physics. (Bulgarian) **89c:22014**
(Damyanov, B.) *see* **Bleuler, Konrad, 89c:22014**

Items with secondary classifications in 22Exx

Mneimné, R. (*with* Testard, Frédéric) ★ Introduction à la théorie des groupes de Lie classiques. (French) [Introduction to the theory of classical Lie groups] **89b:22001**
Testard, Frédéric *see* **Mneimné, R., 89b:22001**

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Barannik, L. F. (*with* Fushchich, V. I.) Continuous subgroups of the conformal group in the Minkowski space $R_{1,n}$. (Russian) **89j:22010**
van Est, W. T. (*with* van der Lee, M. A. M.) Enlargeability of local groups according to Mal′cev and Cartan-Smith. **89i:22012**
Fushchich, V. I. *see* **Barannik, L. F., 89j:22010**
van der Lee, M. A. M. *see* **van Est, W. T., 89i:22012**
Schwarz, Fritz Symmetries of differential equations: from Sophus Lie to computer algebra. **89i:22013**

Items with secondary classifications in 22E05

Aguirre, M. (*with* Krause, Jorge) $\mathrm{SL}(3, \mathbf{R})$ as the group of symmetry transformations for all one-dimensional linear systems. **89g:58184**
Almeida, P. Noncommutative Poincaré complex. **89k:58006**
Baĭkov, V. A. (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Approximate group analysis of the equation $u_{tt}-(f(u)u_x)_x+\varepsilon\varphi(u)u_t=0$. (Russian) **89h:35015a**
— (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Approximate group analysis of the nonlinear equation $u_{tt}-(f(u)u_x)_x+\varepsilon\varphi(u)u_t=0$. **89h:35015b**
Barannik, L. F. Symmetry reduction and exact solutions of the Liouville equation. (Russian. English summary) **89k:58299**
Biesiada, Marek (*with* Szydłowski, Marek) On some group properties of structure equations of stellar systems. **89h:85001**
Gagnon, L. (*with* Hussin, V.; Winternitz, P.) Nonlinear equations with superposition formulas and exceptional group G_2. III. The superposition formulas. **89j:58117**
Gazizov, R. K. *see* **Baĭkov, V. A.; et al., 89h:35015a** *and* **89h:35015b**
González-Gascón, Francisco (*with* González-López, A.) The inverse problem concerning symmetries of ordinary differential equations. **89a:58100**
González-López, A. *see* **González-Gascón, Francisco, 89a:58100**
Hsu, Lucas (*with* Kamran, N.) Classification of second-order ordinary differential equations admitting Lie groups of fibre-preserving point symmetries. **89k:58312**
Hussin, V. *see* **Gagnon, L.; et al., 89j:58117**
Ibragimov, N. Kh. *see* **Baĭkov, V. A.; et al., 89h:35015a** *and* **89h:35015b**
Kamran, N. *see* **Hsu, Lucas, 89k:58312**
Krause, Jorge *see* **Aguirre, M., 89g:58184**
Lev, V. Kh. Two-dimensional and three-dimensional geometries in the theory of physical structures. (Russian) **89g:58221**
Reshetikhin, N. Yu. The algebraic Bethe ansatz for $\mathrm{SO}(N)$-invariant transfer matrices. (Russian. English summary) **89k:82103**
Roberts, D. A. Lie group theory applied to the nonlinear Vlasov-Maxwell equations in one and three dimensions. **89k:35014**
Rosenhaus, V. Groups of invariance and solutions of equations determined by them. **89i:58160**
Shtelen′, V. M. Non-Lie symmetry and nonlocal transformations. (Russian) **89d:35008**
Sokolov, V. V. Pseudosymmetries and differential permutations. **89k:58309**
Sternheimer, Daniel Recent developments in nonlinear representations and evolution equations. **89j:58050**
Szydłowski, Marek *see* **Biesiada, Marek, 89h:85001**
Winternitz, P. *see* **Gagnon, L.; et al., 89j:58117**
Zaĭtsev, V. F. Discrete-group analysis of ordinary differential equations. **89g:34050**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Đoković, Dragomir Ž. The exponential image of simple complex Lie groups of exceptional type. **89f:22008**
— The interior and the exterior of the image of the exponential map in classical Lie groups. **89j:22011a**
— Corrigendum: "The interior and the exterior of the image of the exponential map in classical Lie groups". **89j:22011b**
Iwamoto, Takashi Algebraic groups and co-compact subgroups of complex linear groups. **89d:22005**

Items with secondary classifications in 22E10

Chinak, R. B. The group of automorphisms of a projective manifold. (Russian) **89c:32079**
Popov, A. M. Finite isotropy subgroups in general position of irreducible semisimple linear Lie groups. **89a:20049**

22E15 General properties and structure of real Lie groups

Adams, J. F. 2-tori in E_8. **89b:22010**
Bronzan, J. B. Parametrization of SU(3). **89h:22012**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89m:22010**
Hilgert, Joachim Invariant Lorentzian orders on simply connected Lie groups. **89i:22014**
Kaneyuki, Soji A decomposition theorem for simple Lie groups associated with para-Hermitian symmetric spaces. **89g:22008**
Metlitskiĭ, A. N. Homogeneous spaces that are generated by a completely decomposable Lie group, and morphisms of them. (Russian) **89k:22010**
Moskalenko, Yu. D. Continuous subgroups of the general linear group of a three-dimensional real space. (Russian) **89e:22013**
Ne'eman, Yuval (*with* Šijački, Djordje) $\overline{\mathrm{GL}}(4, \mathbf{R})$ group-topology, covariance and curved-space spinors. **89e:22014**
Plebański, J. F. (*with* Przanowski, M.) Generalizations of the quaternion algebra and Lie algebras. **89g:22009**
Przanowski, M. *see* **Plebański, J. F., 89g:22009**
Šijački, Djordje *see* **Ne'eman, Yuval, 89e:22014**
Soĭfer, G. A. Coatomic connected groups. **89m:22009**
Strichartz, Robert S. The Campbell-Baker-Hausdorff-Dynkin formula and solutions of differential equations. **89b:22011**
Thomas, E. S. Connected subgroups of Lie groups. **89a:22013**
Zaĭtsev, A. A. Compactness of a group of automorphisms that preserve a polarization. (Russian) **89b:22012**

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Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 20. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 20] **89m:22010**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 20. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 20] **89m:22010**

Items with secondary classifications in 22E15

Barannik, A. F. *see* **Barannik, L. F.; et al., 89e:22020**
Barannik, L. F. (*with* Barannik, A. F.; Fushchich, V. I.) On the continuous subgroups of the generalised Poincaré group $P(1,n)$. **89e:22020**
Fellouris, Anargyros On super Lie groups. **89f:58008**
Fushchich, V. I. *see* **Barannik, L. F.; et al., 89e:22020**
Hofmann, Karl Heinrich (*with* Morris, Sidney A.) Free compact groups. II. The center. **89g:22005**
Hoke, Harry F., III Lie groups that are closed at infinity. **89j:58108**

Korányi, A. (*with* Reimann, H. M.) The complex cross ratio on the Heisenberg group. **89d:57057**
Matsuki, Toshihiko Closure relations for orbits on affine symmetric spaces under the action of parabolic subgroups. Intersections of associated orbits. **89f:53073**
Morris, Sidney A. *see* **Hofmann, Karl Heinrich, 89g:22005**
Mushkarov, Oleg K. On a class of almost complex group manifolds. **89d:53075**
Reimann, H. M. *see* **Korányi, A., 89d:57057**
Selim, Taufik Mohamed On maximal subalgebras in classical real Lie algebras. **89a:17007**

22E20 General properties and structure of other Lie groups

Pantoja, José E. (*with* Soto-Andrade, Jorge) Structure of generalized local rigid motion groups. **89m:22011**
Soto-Andrade, Jorge *see* **Pantoja, José E., 89m:22011**

Items with secondary classifications in 22E20

Brada, Claude ★ Éléments de la géométrie des octaves de Cayley. (French) [Elements of the geometry of Cayley numbers] **89a:53056**
Bruhat, F. (*with* Tits, J.) Groupes algébriques sur un corps local. Chapitre III. Compléments et applications à la cohomologie galoisienne. [Algebraic groups over local fields. III. Further remarks and applications to Galois cohomology] **89b:20099**
Brumfiel, G. W. The tree of a non-Archimedean hyperbolic plane. **89m:51024**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89m:22010**
Lubotzky, A. A group theoretic characterization of linear groups. **89c:20066**
Pillay, Anand On groups and fields definable in *o*-minimal structures. **89i:03069**
Tits, J. *see* **Bruhat, F., 89b:20099**

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22E25 Nilpotent and solvable Lie groups

Boidol, J. (*with* Ludwig, Jean; Müller, Detlef Horst) On infinitely small orbits. **89f:22009**
Corwin, Lawrence (*with* Greenleaf, F. P.; Grelaud, G.) Direct integral decompositions and multiplicities for induced representations of nilpotent Lie groups. **89b:22013**
Cygan, Jacek M. (*with* Richardson, Leonard F.) Globally hypoelliptic systems of vector fields on nilmanifolds. **89f:22010**
Damek, Ewa A Poisson kernel on Heisenberg type nilpotent groups. **89d:22006**
— Curvature of a semidirect extension of a Heisenberg type nilpotent group. **89d:22007**
— The geometry of a semidirect extension of a Heisenberg type nilpotent group. **89d:22008**
— Left-invariant degenerate elliptic operators on semidirect extensions of homogeneous groups. **89k:22011**
Greenleaf, F. P. *see* **Corwin, Lawrence; et al., 89b:22013**
Grelaud, G. *see* **Corwin, Lawrence; et al., 89b:22013**
Helffer, Bernard On a conjecture of P. Jorgensen and W. Klink. **89f:22011**
Ludwig, Jean *see* **Boidol, J.; et al., 89f:22009**
Müller, Detlef Horst *see* **Boidol, J.; et al., 89f:22009**
Prado, Humberto Spectral properties for operators in a Lie algebra. **89k:22012**
Richardson, Leonard F. *see* **Cygan, Jacek M., 89f:22010**
Saloff-Coste, L. Théorèmes de Sobolev et inégalités de Trudinger sur certains groupes de Lie. (English summary) [Sobolev theorems and Trudinger inequalities on some Lie groups] **89h:22013**
Schempp, Walter The oscillator representation of the metaplectic group applied to quantum electronics and computerized tomography. **89k:22013**
Zahir, Hamid Continuité de la transformation de Fourier nilpotente. (English summary) [Continuity of the nilpotent Fourier transform] **89g:22010**

Items with secondary classifications in 22E25

Chumak, M. L. The integrability of invariant Hamiltonian systems and homogeneous spaces with a simple spectrum for nilpotent groups. (Russian) **89g:22011**
Cordero, Luis A. (*with* Fernández, Marisa; Gray, Alfred) The Frölicher spectral sequence and complex compact nilmanifolds. (French summary) **89c:32081**
Fernández, Marisa *see* **Cordero, Luis A.; et al., 89c:32081**
Fujiwara, Hidenori Unitary representations of solvable Lie groups. (Japanese) **89b:22014**
Gaudry, G. I. (*with* Giulini, S.; Hulanicki, Andrzej; Mantero, Anna Maria) Hardy-Littlewood maximal functions on some solvable Lie groups. **89e:43020**
Giulini, S. *see* **Gaudry, G. I.; et al., 89e:43020**
Głowacki, Paweł An inversion problem for singular integral operators on homogeneous groups. **89e:43021**
Gray, Alfred *see* **Cordero, Luis A.; et al., 89c:32081**
Hain, Richard M. Higher Albanese manifolds. **89a:14060**
Hulanicki, Andrzej (*with* Jenkins, Joe W.) Nilpotent Lie groups and eigenfunction expansions of Schrödinger operators. II. **89f:22015**
— *see also* **Gaudry, G. I.; et al., 89e:43020**
Jenkins, Joe W. *see* **Hulanicki, Andrzej, 89f:22015**
Jørgensen, Palle E. T. (*with* Klink, W. H.) Spectral transform for the sub-Laplacian on the Heisenberg group. **89k:58276**
Klink, W. H. *see* **Jørgensen, Palle E. T., 89k:58276**
Korányi, A. (*with* Reimann, H. M.) The complex cross ratio on the Heisenberg group. **89d:57057**
Lee, Kyung Bai There are only finitely many infra-nilmanifolds under each nilmanifold. **89f:22018**
Leptin, Horst Funktionenalgebren auf Bahnen nilpotenter Gruppen. [Function algebras on orbits of nilpotent groups] **89c:43012**
Mantero, Anna Maria *see* **Gaudry, G. I.; et al., 89e:43020**
Miller, Kenneth G. Microlocal regularity on step two nilpotent Lie groups. **89d:58124**
Poguntke, Detlev Spectral synthesis of orbits of compact groups. **89j:43006**
Reimann, H. M. *see* **Korányi, A., 89d:57057**
Snow, Joanne Erdman On the classification of solv-manifolds in dimension 2 and 3. **89j:32042**
Starkov, A. N. Solvable homogeneous flows. **89b:22009**
Stempak, Krzysztof An algebra associated with the generalized sub-Laplacian. **89e:47073**
Unterberger, André Pseudodifferential analysis, quantum mechanics and relativity. **89h:58188**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-Type I representations, etc.)

Benson, Chal (*with* Ratcliff, G.) Quantization and an invariant for unitary representations of nilpotent Lie groups. **89j:22012**
Bonnet, Pierre Analyse de Fourier explicite sur certains groupes de Lie nilpotents. (English summary) [Explicit Fourier analysis on certain nilpotent Lie groups] **89a:22014**
Chikosh, B. The topology of the dual object and exponential Lie groups. **89m:22012**
Chumak, M. L. The integrability of invariant Hamiltonian systems and homogeneous spaces with a simple spectrum for nilpotent groups. (Russian) **89g:22011**
du Cloux, Fokko Jets de fonctions différentiables sur le dual d'un groupe de Lie nilpotent. [Jets of differentiable functions on the dual of a nilpotent Lie group] **89g:22012**
Corwin, Lawrence (*with* Greenleaf, F. P.) Complex algebraic geometry and calculation of multiplicities for induced representations of nilpotent Lie groups. **89f:22012**
Currey, Bradley N. On the dual of an exponential solvable Lie group. **89i:22015**
Felix, Rainer Zentrale Distributionen auf Exponentialgruppen. [Central distributions on exponential groups] **89f:22013**
Fujiwara, Hidenori Représentations monomiales des groupes de Lie nilpotents. [Monomial representations of nilpotent Lie groups] **89c:22015**
— Unitary representations of solvable Lie groups. (Japanese) **89b:22014**
Greenleaf, F. P. *see* **Corwin, Lawrence, 89f:22012**
Nomura, Takaaki Harmonic analysis on a nilpotent Lie group and representations of a solvable Lie group on $\overline{\partial}_b$ cohomology spaces. **89f:22014**
Paterson, Alan L. T. Cross sections and an explicit formula for the Plancherel measure on a nilpotent Lie group. **89j:22013**
Ratcliff, G. *see* **Benson, Chal, 89j:22012**

Items with secondary classifications in 22E27

Battesti, F. D. Solvability of differential operators. I. Direct and semidirect products of Lie groups. **89a:22015**
Boidol, J. (*with* Ludwig, Jean; Müller, Detlef Horst) On infinitely small orbits. **89f:22009**
Corwin, Lawrence (*with* Greenleaf, F. P.; Grelaud, G.) Direct integral decompositions and multiplicities for induced representations of nilpotent Lie groups. **89b:22013**
Greenleaf, F. P. *see* **Corwin, Lawrence; et al., 89b:22013**
Grelaud, G. *see* **Corwin, Lawrence; et al., 89b:22013**
Kaniuth, Eberhard Irreducible representations that cannot be separated from the trivial representation. **89h:22010**
Leptin, Horst The structure of primitive quotients of certain group algebras. **89g:43002**
Ludwig, Jean *see* **Boidol, J.; et al., 89f:22009**
Mori, Keiichi Geometric quantization and Zuckerman module. **89k:22030**
Müller, Detlef Horst *see* **Boidol, J.; et al., 89f:22009**
Poguntke, Detlev Spectral synthesis of orbits of compact groups. **89j:43006**

22E30 Analysis on real and complex Lie groups [see also 33A75, 43–XX]

Anker, Jean-Philippe La forme exacte de l'estimation fondamentale de Harish-Chandra. (English summary) [The exact form of Harish-Chandra's fundamental estimate] **89i:22016**
Baaquie, Belal E. Character functions of SU(3). **89j:22014**
Barker, William H. L^p harmonic analysis on SL(2, **R**). **89k:22014**
Battesti, F. D. Solvability of differential operators. I. Direct and semidirect products of Lie groups. **89a:22015**
— (*with* Dooley, A. H.) Solvability of differential operators. II. Semisimple Lie groups. **89a:22016**
— (*with* Dooley, A. H.) Invariant differential operators on some Lie groups. **89d:22009**
— Résolubilité globale d'opérateurs différentiels invariants sur certains groupes de Lie. (English summary) [Global solvability of invariant differential operators on certain Lie groups] **89m:22013**
Beerends, R. J. The Abel transform and shift operators. **89m:22014**
Ben Farah, Slaïm Caractérisation des fonctions moyennes sur le cône des matrices de rang un et de trace nulle. (English summary) [Characterization of orbital functions on the cone of rank one and trace zero matrices] **89c:22016**
Clerc, Jean-Louis Transformées de Fourier des mesures orbitales dans l'espace tangent d'un espace symétrique. (English summary) [Fourier transforms of orbital measures in the tangent space of a symmetric space] **89h:22014**
Cowling, Michael Rigidity, von Neumann algebras, and semisimple groups. **89g:22013**
Díez Fernández, Honorato Fourier transform of the convolution product in a nilpotent Lie group of order two. (Spanish. English summary) **89i:22017**
Dooley, A. H. *see* **Battesti, F. D., 89a:22016** *and* **89d:22009**
Gangolli, Ramesh (*with* Varadarajan, V. S.) ★ Harmonic analysis of spherical functions on real reductive groups. **89m:22015**
Gel'fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Equations of hypergeometric type and Newton polyhedra. **89j:22015**
Giacalone, Ermanno (*with* Ricci, Fulvio) Norms of harmonic projection operators on compact Lie groups. **89e:22015**
Gindikin, S. G. Differential geometry problems in integral geometry. **89h:22015**

Harinck, Pascale Fonctions généralisées sur une algèbre de Lie semi-simple réelle. (English summary) [Invariant generalized functions on a semisimple Lie algebra] **89b:22015**

Helgason, Sigurdur ★ Группы и геометрический анализ. (Russian) [Groups and geometric analysis] **89g:22014**

Hulanicki, Andrzej (*with* Jenkins, Joe W.) Nilpotent Lie groups and eigenfunction expansions of Schrödinger operators. II. **89f:22015**

Jenkins, Joe W. *see* **Hulanicki, Andrzej, 89f:22015**

Kapranov, M. M. *see* **Gel′fand, I. M.; et al., 89j:22015**

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— Selberg trace formula for a certain group generated by $\mathrm{PSL}(2,\mathbf{Z}[i])$ and a reflection. **89m:11055**

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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

Prasad, Gopal (*with* Raghunathan, M. S.) Topological central extensions of $\mathrm{SL}_1(D)$. **89e:22018**

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22E43 Structure and representation of the Lorentz group

Atakishiev, N. M. (*with* Suslov, S. K.) Representations of the Lorentz group SO(3, 1) and Hahn polynomials. (Russian) (*see* **89d:81002**)

Barannik, A. F. *see* **Barannik, L. F.; et al., 89e:22020**

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22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}

Adams, Jeffrey (*with* Johnson, Joseph F.) Endoscopic groups and packets of nontempered representations. **89h:22022**

Ariki, Susumu On the representations of the Weyl groups of type D corresponding to the zero weights of the representations of $\mathrm{SO}(2n,\mathbf{C})$. **89k:22022**

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van den Ban, Erik P. (*with* Delorme, Patrick) Quelques propriétés des représentations sphériques pour les espaces symétriques réductifs. (English summary) [Some properties of spherical representations for reductive symmetric spaces] **89j:22025**

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— (*with* Gilbert, J. E.; Kunze, R. A.) Invariant differential operators in harmonic analysis on real hyperbolic space. **89j:22027**

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— *see also* **Vilenkin, N. Ya.; et al., (89d:81002)**

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— (*with* Wakayama, Masato) An elementary proof of the Trombi theorem for the Fourier transform of $\mathscr{C}^p(G:F)$. **89c:22023**

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Fecko, Marián A representation of $\mathrm{SO}(p+q,\ p+q)$ on $\mathrm{SO}(p,q)$. **89h:22027**

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Guichardet, A. Représentations de longueur finie et géométrie différentielle sur $\hat{G}$. [Representations of finite length and differential geometry on $\hat{G}$] **89b:22023**

Hasegawa, Kohji Dual pairs on spinors. Cases of (C_m, C_n) and $(C_m^{(1)}, C_n^{(1)})$. **89k:22024**

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— Small unitary representations of classical groups. **89m:22016**

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Kamoun, Nouri Représentations unitaires et opérateurs à trace. (English summary) [Unitary representations and trace operators] **89h:22028**

Kawazoe, Takeshi Fourier transform associated with holomorphic discrete series. **89i:22020**

Kerov, S. V. Realizations of representations of the Brauer semigroup. (Russian. English summary) **89j:22029**

Klimyk, A. U. Upper bounds for the multiplicities of representations of a compact group in the tensor product and in the restriction of representations of the group to a subgroup. (Russian) (*see* **89d:81002**)

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Pittaluga, Marilena (*with* Strickland, Elisabetta) On computers and modular representations of $\mathrm{SL}_n(K)$. **89k:22025**

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Przebinda, Tomasz On Howe's duality theorem. **89j:22031**

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— A generating function of strict Gel′fand patterns and some formulas on characters of general linear groups. **89m:22019**

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Bacry, H. (*with* Michel, L.; Zak, Joshua) Symmetry and classification of energy bands in crystals. **89j:81288**

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van den Ban, Erik P. (*with* Schlichtkrull, Henrik) Asymptotic expansions and boundary values of eigenfunctions on Riemannian symmetric spaces. **89g:43010**

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— (*with* Graev, M. I.) Strata in $G_{3,6}$ and the hypergeometric functions connected with them. (Russian) **89c:32084**

— (*with* Retakh, V. S.; Serganova, V. V.) Generalized Airey functions, Schubert cells and Jordan groups. **89b:33018**

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— Root systems and hypergeometric functions. II. **89b:58192b**

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Jantzen, J. C. ★ Representations of algebraic groups. **89c:20001**

Kato, Suehiro *see* **Sano, Shigeru; et al., 89a:43014**

Kawai, Toshiya Two-cocycle and transformation law of the current. **89g:81033**

Knapp, Anthony W. ★ Lie groups, Lie algebras, and cohomology. **89j:22034**

Knyr, V. A. *see* **Smirnov, Yu. F.; et al.**, (**89d:81002**)

Kudla, Stephen S. (*with* Millson, John J.) The theta correspondence and harmonic forms. II. **89b:11041**

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Magid, Andy R. Local structure of representation varieties. **89j:20015**

Meaney, C. On the representation theory of $\mathrm{SU}(2,1)$. **89e:22026**

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Mikityuk, I. V. Homogeneous spaces with integrable G-invariant Hamiltonian flows. (Russian) **89f:58058**

Millson, John J. *see* **Kudla, Stephen S., 89b:11041** *and* **Goldman, William M., 89f:53100**

Moore, Calvin C. Exponential decay of correlation coefficients for geodesic flows. **89d:58102**

Ne'eman, Yuval (*with* Šijački, Djordje) $\widetilde{\overline{\mathrm{GL}}}(4,\mathbf{R})$ group-topology, covariance and curved-space spinors. **89e:22014**

Nomura, Takaaki Harmonic analysis on a nilpotent Lie group and representations of a solvable Lie group on $\overline{\partial}_b$ cohomology spaces. **89f:22014**

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Radzhabov, B. A. Spherical functions on the groups $\mathrm{SO}(p,q)$. I. Zonal functions. (Russian. English and Azerbaijani summaries) **89k:22031**

Rees, Howard D. R-torsion associated to infinite-dimensional unitary representations. **89i:58134**

Rentschler, R. Primitive ideals in enveloping algebras (general case). **89d:17014**

Retakh, V. S. *see* **Gel′fand, I. M.; et al., 89b:33018**

Ringseth, Paul F. The Selberg trace formula for groups without Eisenstein series. **89j:22021**

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Sanchez-Soto, L. L. (*with* Bernabeu, E.) Time evolution of generalized coherent states. (Italian and Russian summaries) **89f:81087**

Sano, Shigeru (*with* Aoki, Shigeru; Kato, Suehiro) A note on connection formulas for invariant eigendistributions on certain semisimple symmetric spaces. **89a:43014**

Satō, Fumihiro Eisenstein series on the Siegel half space of signature $(1,1)$. **89f:11075**

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Shelstad, D. *see* **Langlands, R. P., 89c:11172**

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Smirnov, Yu. F. (*with* Tolstoĭ, V. N.; Knyr, V. A.; Stotland, L. Ya.) Structure of the representations of the algebra $\mathrm{u}(2,1)$ with an extremal vector. (Russian) (*see* **89d:81002**)

Soergel, Wolfgang An irreducible not admissible Banach representation of $\mathrm{SL}(2,\mathbf{R})$. **89h:22033**

Srivastava, Hari M. A unified theory of polynomial expansions and their applications involving Clebsch-Gordan type linearization relations and Neumann series. **89m:33007**

Stankov, Dimcho K. On isometries of a space of bounded generalized analytic functions. **89a:46116**

Stotland, L. Ya. *see* **Smirnov, Yu. F.; et al.**, (**89d:81002**)

Šťovíček, Pavel Gell-Mann formula for simple complex Lie groups and geometric quantization. **89k:58111**

Sunada, Toshikazu Fundamental group and Laplacians. (Japanese) **89d:58128**

Szczyrba, Igor *see* **Cieciura, Grzegorz, 89c:22040**

Tokuyama, Takeshi Determinantal method and the Littlewood-Richardson rule. **89j:20046**

Tolstoĭ, V. N. *see* **Smirnov, Yu. F.; et al.**, (**89d:81002**)

Tong, Yue Lin Lawrence (*with* Wang, Shu Ping) Some nonzero cohomology of discrete groups. **89e:22019**

Trofimov, V. V. A group-theoretic interpretation of some classes of equations of classical mechanics. (Russian) **89g:58079**

Verdiev, Ĭ. A. Multiplicative integrals of representations of $\mathrm{PSU}(1,1)$, $\mathrm{SU}(2)$ and vertex operators. **89g:22029**

Vogan, David A., Jr. ★ Unitary representations of reductive Lie groups. **89g:22024**

Vourdas, A. *see* **Bishop, R. F., 89h:81088**

Wang, Shu Ping *see* **Tong, Yue Lin Lawrence, 89e:22019**

Warner, Garth Application of the Selberg trace formula to the Riemann-Roch theorem. **89c:11088**

Wassermann, Antony Une démonstration de la conjecture de Connes-Kasparov pour les groupes de Lie linéaires connexes réductifs. (English summary) [A proof of the Connes-

Kasparov conjecture for connected reductive linear Lie groups] **89a:22010**

Zak, Joshua *see* **Bacry, H.; et al., 89j:81288**

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Geometric realizations of group representations ★ Geometric realizations of group representations. (Japanese) **89a:22001**

22E46 Semisimple Lie groups and their representations

Atakishiev, N. M. (*with* Suslov, S. K.) Representations of SO(3, 1) and the Hahn polynomials. **89d:22011**

Baldoni Silva, M. W. (*with* Knapp, Anthony W.) Indefinite intertwining operators. II. **89i:22023**

van den Ban, Erik P. Invariant differential operators on a semisimple symmetric space and finite multiplicities in a Plancherel formula. **89g:22019**

— Asymptotic behaviour of matrix coefficients related to reductive symmetric spaces. **89c:22025**

— *see also* **Delorme, Patrick, 89c:22026**

Beerends, R. J. An introduction to the Abel transform. **89f:22021**

— A transmutation property of the generalized Abel transform associated with root system A_2. **89e:22022**

Berenshteĭn, A. D. (*with* Zelevinskiĭ, A. V.) Involutions on Gel′fand-Tsetlin schemes and multiplicities in skew GL$_n$-modules. **89h:22030**

Boe, Brian D. Kazhdan-Lusztig polynomials for Hermitian symmetric spaces. **89i:22024**

Bożejko, Marek (*with* Januszkiewicz, T.; Spatzier, R. J.) Infinite Coxeter groups do not have Kazhdan's property. **89i:22025**

Cahen, Michel (*with* Gutt, S.) An algebraic construction of $*$ product on the regular orbits of semisimple Lie groups. **89e:22023**

Chacón, E. (*with* Moshinsky, M.) Matrix representation of the generators of symplectic algebras. II. The general case with explicit results for sp(6, **R**). **89a:22024**

Chang, Jen-Tseh Special K-types, tempered characters and the Beilinson-Bernstein realization. **89k:22028**

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Delorme, Patrick Injection de modules sphériques pour les espaces symétriques réductifs dans certaines représentations induites. [Injection of spherical modules for reductive symmetric spaces into certain induced representations] **89c:22026**

Falkowski, B.-J. Current group and 1-cohomology for SL(2; **C**). **89a:22025**

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Hotta, R. Holonomic $\mathscr{D}$-modules in representation theory. **89g:22020**

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— A constructive approach to tensor product decompositions. **89g:22021**

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Li, Jian-Shu On the singular rank of a representation. **89k:22029**

Matsuzawa, Jun-ichi On the generalized exponents of classical Lie groups. **89m:22020**

Meaney, C. On the representation theory of SU(2, 1). **89e:22026**

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Wolf, Joseph A. *see* **Hecht, Henryk; et al., 89e:22025**

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Braden, H. W. On the absence of global anomalies. **89b:81177**

Burger, Marc Spectre du laplacien, graphes et topologie de Fell. [Spectrum of the Laplacian, graphs and the Fell topology] **89h:58193**

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Enright, Thomas J. (*with* Shelton, Brad) Highest weight modules for Hermitian symmetric pairs of exceptional type. **89m:17010**

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Sitaram, Alladi On an analogue of the Wiener Tauberian theorem for symmetric spaces of the noncompact type. **89e:43024**

Snow, Dennis M. Vanishing theorems on compact Hermitian symmetric spaces. **89g:32046**

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Sunada, Toshikazu Fundamental groups and Laplacians. **89i:58151**

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Wallace, D. I. Maximal parabolic terms in the Selberg trace formula for SL(3, Z)\SL(3, **R**) /SO(3, **R**). **89m:11053**

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— Finite multiplicity theorems for induced representations of semisimple Lie groups. II. Applications to generalized Gel′fand-Graev representations. **89k:22018**

22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B35]

Akin, Kaan On complexes relating the Jacobi-Trudi identity with the Bernstein-Gel′fand-Gel′fand resolution. **89i:22030**
Collingwood, David H. (*with* Irving, Ronald S.; Shelton, Brad) Filtrations on generalized Verma modules for Hermitian symmetric pairs. **89a:22030**
— Representations of rank one Lie groups. II. n-cohomology. **89i:22031**
Debiard, Amédée Système différentiel hypergéométrique et parties radiales des opérateurs invariants des espaces symétriques de type BC_p. [A hypergeometric differential system and the radial parts of invariant operators of symmetric spaces of type BC_p] **89e:22027**
Eastwood, Michael G. (*with* Rice, John W.) Conformally invariant differential operators on Minkowski space and their curved analogues. **89d:22012**
Enright, Thomas J. Analogues of Kostant's $\mathfrak{u}$-cohomology formulas for unitary highest weight modules. **89m:22022**
Irving, Ronald S. *see* **Collingwood, David H.; et al., 89a:22030**
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Shelton, Brad *see* **Collingwood, David H.; et al., 89a:22030**
Soergel, Wolfgang $\mathscr{D}$-modules et équivalence de Enright-Shelton. (English summary) [$\mathscr{D}$-modules and Enright-Shelton equivalence] **89h:22035**
Zhelobenko, D. P. Transvector algebras in representation theory and dynamic symmetry. **89i:22032**

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Chang, Jen-Tseh Special K-types, tempered characters and the Beilinson-Bernstein realization. **89k:22028**
du Cloux, Fokko Jets de fonctions différentiables sur le dual d'un groupe de Lie nilpotent. [Jets of differentiable functions on the dual of a nilpotent Lie group] **89g:22012**
De Concini, C. Equivariant embeddings of homogeneous spaces. **89e:14045**
Enright, Thomas J. (*with* Shelton, Brad) Highest weight modules for Hermitian symmetric pairs of exceptional type. **89m:17010**
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Hyun, S. J. *see* **Günaydin, M., 89k:22037**
Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**
Kerov, S. V. *see* **Vershik, A. M., 89k:17011**
Knapp, Anthony W. ★ Lie groups, Lie algebras, and cohomology. **89j:22034**
Li, Jian-Shu On the singular rank of a representation. **89k:22029**
Lusztig, G. Introduction to character sheaves. **89e:20079**
Mirković, I. (*with* Vilonen, K.) Characteristic varieties of character sheaves. **89i:20066**
Retakh, V. S. *see* **Zelevinskiĭ, A. V., 89g:22025**
Salamanca Riba, Susana On the unitary dual of some classical Lie groups. **89m:22018**
Shelton, Brad Extensions between generalized Verma modules: the Hermitian symmetric cases. **89d:17006**
— *see also* **Enright, Thomas J., 89m:17010**
Vershik, A. M. (*with* Kerov, S. V.) Characters and realizations of representations of the infinite-dimensional Hecke algebra, and knot invariants. **89k:17011**
Vilonen, K. *see* **Mirković, I., 89i:20066**
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Symposium:
  Outline of D-Modules ★ D-kagun gaisetsu. II. (Japanese) [An outline of D-modules. II] **89k:32021**

22E50 Representations of Lie and linear algebraic groups over local fields

Arthur, James The local behaviour of weighted orbital integrals. **89h:22036**
Aubert, Anne-Marie Correspondance de Howe et sous-groupes parahoriques. (English summary) [Howe's correspondence and parahoric subgroups] **89k:22032**
Flicker, Yuval Z. On endo-lifting. **89k:22033**
Ginzburg, V. A. A proof of the Deligne-Langlands conjecture. (Russian) **89a:22031**
Hansen, Kristina Restriction to $\mathrm{GL}_2(\mathscr{O})$ of supercuspidal representations of $\mathrm{GL}_2(F)$. **89d:22013**
Hironaka, Yumiko (*with* Satā, Fumihiro) Representations of Hecke algebras and symmetric spaces in case of alternating matrices. (*see* **89k:16001**)
Julg, Pierre (*with* Valette, Alain) Fredholm modules associated to Bruhat-Tits buildings. **89g:22026**
Kaise, Tetsuo ★ Représentations de Weil et GL_2. Algèbres de dimension et GL_n. (French) [Weil representations and GL_2. Division algebras and GL_n] **89f:22023**
Kawanaka, Noriaki Shintani lifting and Gel′fand-Graev representations. **89h:22037**
Kazhdan, D. Algebraic geometry and representation theory. **89d:22014**
Keys, C. David (*with* Shahidi, Freydoon) Artin L-functions and normalization of intertwining operators. **89k:22034**
Kutzko, P. C. On the supercuspidal representations of GL_N and other p-adic groups. **89h:22038**
— Towards a classification of the supercuspidal representations of GL_N. **89e:22028**
Mœglin, C. (*with* Waldspurger, Jean-Loup) Modèles de Whittaker dégénérés pour des groupes p-adiques. [Degenerate Whittaker models for p-adic groups] **89f:22024**
Morris, Lawrence Rational conjugacy classes of unipotent elements and maximal tori, and some axioms of Shalika. **89j:22037**
— P-cuspidal representations. **89j:22038**
Moy, Allen Minimal K-types for G_2 over a p-adic field. **89c:22027**
Petrov, E. E. Fundamental harmonics on a p-adic circle. (Russian) **89a:22032**
Rodier, François Sur les représentations non ramifiées des groupes réductifs p-adiques; l'exemple de GSp(4). (English summary) [Unramified representations of p-adic reductive groups; the example of GSp(4)] **89i:22033**
Rogawski, J. D. Trace Paley-Wiener theorem in the twisted case. **89k:22035**
Satā, Fumihiro *see* **Hironaka, Yumiko, (89k:16001)**
Shahidi, Freydoon *see* **Keys, C. David, 89k:22034**
Tadić, Marko Unitary representations of GL(n), derivatives in the non-Archimedean case. **89c:22028**
— Topology of unitary dual of non-Archimedean GL(n). **89c:22029**
Valette, Alain *see* **Julg, Pierre, 89g:22026**
Waldspurger, Jean-Loup Un exercice sur GSp(4, F) et les représentations de Weil. [An exercise on GSp(4, F) and Weil representations] **89a:22033**
— *see also* **Mœglin, C., 89f:22024**

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Lecture Notes in Mathematics *see* **Kaise, Tetsuo, 89f:22023**

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Adams, Jeffrey (*with* Johnson, Joseph F.) Endoscopic groups and packets of nontempered representations. **89h:22022**
Ahumada, Guido Fonctions périodiques et formule des traces de Selberg sur les arbres. (English summary) [Periodic functions and the Selberg trace formula for trees] **89d:11103**
Bruhat, F. (*with* Tits, J.) Schémas en groupes et immeubles des groupes classiques sur un corps local. II. Groupes unitaires. (English summary) [Group schemes and buildings of classical groups over a local field. II. Unitary groups] **89b:20098**
Bump, Daniel Barnes' second lemma and its application to Rankin-Selberg convolutions. **89f:11076**
Corwin, Lawrence Approximation of prime elements in division algebras over local fields and unitary representations of the multiplicative group. **89c:11173**
Curtis, Ch. ★ Representation theory of Hecke algebras. **89g:20069**
Drinfel′d, V. G. Cohomology of compactified moduli varieties of F-sheaves of rank 2. (Russian) **89b:11050**
(Fleischmann, Peter) *see* **Curtis, Ch., 89g:20069**
Flicker, Yuval Z. Rigidity for automorphic forms. **89a:11057**
— On the symmetric square: orbital integrals. **89e:22016**
— Unramified Whittaker functions on the metaplectic group. **89c:11084**
— Regular trace formula and base change lifting. **89m:11051**
— (*with* Kazhdan, D.) On the symmetric square: unstable local transfer. **89e:11031**
Gaudin, Michel Vers le spectre du triangle? (English summary) [Toward the spectrum of the triangle?] **89e:58113**
Johnson, Joseph F. *see* **Adams, Jeffrey, 89h:22022**
Joyner, David On the metaplectic analog of Kazhdan's "endoscopic" lifting. **89i:11061**
Kazhdan, D. *see* **Flicker, Yuval Z., 89e:11031**
Langlands, R. P. (*with* Shelstad, D.) On the definition of transfer factors. **89c:11172**
Li, Wen-Ch'ing Winnie Various aspects of the Barnes' identity. **89i:11112**
Mantero, Anna Maria (*with* Zappa, Anna) Irreducibility of the analytic continuation of the principal series of a free group. **89d:43009**
Pantoja, José E. (*with* Soto-Andrade, Jorge) Structure of generalized local rigid motion groups. **89m:22011**
Rallis, Stephen (*with* Soudry, David) Analytic continuation of Archimedean Whittaker integrals. **89k:22026**
Savin, Gordan Local Shimura correspondence. **89h:22018**
Shahidi, Freydoon On the Ramanujan conjecture and finiteness of poles for certain L-functions. **89h:11021**
Shelstad, D. *see* **Langlands, R. P., 89c:11172**
Snaith, Victor A construction of the Deligne-Langlands local root numbers of orthogonal Galois representations. **89k:11119**
Soto-Andrade, Jorge *see* **Pantoja, José E., 89m:22011**
Soudry, David A uniqueness theorem for representations of GSO(6) and the strong multiplicity one theorem for generic representations of GSp(4). **89f:22025**
— The CAP representations of GSp(4, $\mathbf{A}$). **89e:11032**
— *see also* **Rallis, Stephen, 89k:22026**
Tits, J. *see* **Bruhat, F., 89b:20098**
Vignéras, Marie-France Représentations modulaires de GL(2, $\mathbf{F}$) en caractéristique l, $\mathbf{F}$ corps fini de caractéristique $p \neq l$. (English summary) [Modular representations of GL(2, $\mathbf{F}$) in characteristic l, where $\mathbf{F}$ is a finite field of characteristic $p \neq l$] **89g:20027**
Waldspurger, Jean-Loup Représentation métaplectique et conjectures de Howe. [The metaplectic representation and Howe's conjectures] **89g:11039**
Zappa, Anna *see* **Mantero, Anna Maria, 89d:43009**
Zimmer, Robert J. Amenable actions and dense subgroups of Lie groups. **89a:22012**

22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

Arthur, James The invariant trace formula. I. Local theory. **89e:22029**
— The invariant trace formula. II. Global theory. **89j:22039**
Clozel, Laurent Base change for GL(n). **89i:22034**
Piatetski-Shapiro, Ilja Iosifovitch (*with* Soudry, David) On a correspondence of automorphic forms on orthogonal groups of order five. **89e:22030**
Soudry, David A uniqueness theorem for representations of GSO(6) and the strong multiplicity one theorem for generic representations of GSp(4). **89f:22025**
— *see also* **Piatetski-Shapiro, Ilja Iosifovitch, 89e:22030**

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Blasius, Don (*with* Clozel, Laurent; Ramakrishnan, Dinakar) Opérateurs de Hecke et

formes de Maass: application de la formule des traces. (English summary) [Hecke operators and Maass forms: application of the trace formula] **89g:11042**
Borovoi, M. V. Conjugation of Shimura varieties. **89h:11025**
Bump, Daniel (*with* Hoffstein, Jeffrey) On Shimura's correspondence. **89c:11072**
Clozel, Laurent *see* **Blasius, Don; et al., 89g:11042**
Cogdell, J. W. (*with* Piatetski-Shapiro, Ilja Iosifovitch) Base change for $\widetilde{\mathrm{SL}}_2$. **89c:11163**
Dade, Everett C. Accessible characters are monomial. **89h:20012**
Flicker, Yuval Z. Rigidity for automorphic forms. **89a:11057**
— Regular trace formula and base change lifting. **89m:11051**
— Twisted tensors and Euler products. (French summary) **89m:11049**
— On endo-lifting. **89k:22033**
Gelbart, Stephen (*with* Piatetski-Shapiro, Ilja Iosifovitch; Rallis, Stephen) ★ Explicit constructions of automorphic L-functions. **89k:11038**
— (*with* Shahidi, Freydoon) ★ Analytic properties of automorphic L-functions. **89f:11077**
Hoffstein, Jeffrey *see* **Bump, Daniel, 89c:11072**
Jacquet, Hervé Sur un résultat de Waldspurger. II. [On a result of Waldspurger. II] **89c:11085**
Piatetski-Shapiro, Ilja Iosifovitch (*with* Rallis, Stephen) Rankin triple L functions. **89k:11037**
— *see also* **Cogdell, J. W., 89c:11163** *and* **Gelbart, Stephen; et al., 89k:11038**
Proskurin, N. V. Cubic symplectic theta-functions. (Russian) **89d:11037**
Rallis, Stephen ★ L-functions and the oscillator representation. **89b:11046**
— *see also* **Piatetski-Shapiro, Ilja Iosifovitch, 89k:11037** *and* **Gelbart, Stephen; et al., 89k:11038**
Ramakrishnan, Dinakar *see* **Blasius, Don; et al., 89g:11042**
Shahidi, Freydoon On the Ramanujan conjecture and finiteness of poles for certain L-functions. **89h:11021**
— *see also* **Gelbart, Stephen, 89f:11077**
Soudry, David The CAP representations of GSp(4, A). **89e:11032**
Waldspurger, Jean-Loup Représentation métaplectique et conjectures de Howe. [The metaplectic representation and Howe's conjectures] **89g:11039**

22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

Barannik, L. F. (*with* Fushchich, V. I.) Casimir operators of the generalised Poincaré and Galilei groups. **89e:22031**
— (*with* Fushchich, V. I.) Casimir operators for generalized Poincaré groups and the Galilei group. (Russian) **89g:22027**
Fushchich, V. I. *see* **Barannik, L. F., 89e:22031** *and* **89g:22027**
Schmidt, Hans-Jürgen Addendum: "On Geroch's limit of space-times and its relation to a new topology in the space of Lie groups" [J. Math. Phys. **28** (1987), no. 8, 1928–1936; MR 88i:22042]. **89d:22015**
Suto, Kiyokazu Groups associated with unitary forms of Kac-Moody algebras. **89i:22035**

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Avram, N. M. *see* **Drăgănescu, Gh. E., 89a:81047**
Berele, Allan Trace identities and $\mathbf{Z}/2\mathbf{Z}$-graded invariants. **89m:17043**
Crouch, P. E. *see* **Silva Leite, F., 89b:93023**
Dattoli, G. (*with* Richetta, M.; Torre, Amalia) Operator disentanglement. **89f:81061b**
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Drăgănescu, Gh. E. (*with* Avram, N. M.) Coherent states for an harmonic damped oscillator associated to the O(2, 1) group. **89a:81047**
(Drinfel′d, V. G.) *see* **Verdier, Jean-Louis, 89f:17021**
Gagnon, L. (*with* Hussin, V.; Winternitz, P.) Nonlinear equations with superposition formulas and exceptional group G_2. III. The superposition formulas. **89j:58117**
Günaydin, M. (*with* Hyun, S. J.) Unitary lowest weight representations of the noncompact supergroup $\mathrm{OSp}(2n/2m, R)$. **89k:22037**
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— (*with* van de Ven, Anton E. M.) Free equations of motion for all $D = 6$ supermultiplets. **89e:81071b**

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Jūrmala ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**
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26–XX Real functions [see also 54C30]

26–01 Elementary exposition; textbooks

Barner, Martin (*with* Flohr, Friedrich) ★ Analysis. I. (German) **89j:26001**
Dotto, Oclide José The delta function. (Portuguese) **89j:26002**
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Il′in, V. A. (*with* Sadovnichiĭ, V. A.[1]; Sendov, Blagovest Kh.) ★ Математический анализ. 2. (Russian) [Mathematical analysis. 2] **89d:26001**
(Kosiek, M.) *see* **Łojasiewicz, Stanisław, 89e:26001**
(Lawden, G. H.) *see* **Łojasiewicz, Stanisław, 89e:26001**
Łojasiewicz, Stanisław ★ An introduction to the theory of real functions. **89e:26001**
(Mlak, W.) *see* **Łojasiewicz, Stanisław, 89e:26001**
(Opial, Z.) *see* **Łojasiewicz, Stanisław, 89e:26001**
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Buldyrev, V. S. (*with* Pavlov, B. S.) ★ Линейная алгебра и функции многих переменных. (Russian) [Linear algebra and functions of several variables] **89f:00001**
(Embarek, Djilali) *see* **Kartashev, A. P., 89i:00003**
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Gramain, André ★ Intégration. (French) [Integration] **89m:28001**
Kartashev, A. P. (*with* Rozhdestvenskiĭ, B. L.) ★ Analyse mathématique. (French) [Mathematical analysis] **89i:00003**
Kirsch, Arnold ★ Mathematik wirklich verstehen. (German) [Really understanding mathematics] **89i:00032**
Pavlov, B. S. *see* **Buldyrev, V. S., 89f:00001**
Rozhdestvenskiĭ, B. L. *see* **Kartashev, A. P., 89i:00003**
Torchinsky, Alberto ★ Real variables. **89d:00003**
Zhang, Ming Yong ★ Xiandai fenxi jichu. (Chinese) [Foundations of modern analysis] **89k:00003**

26–02 Advanced exposition (research surveys, monographs, etc.)

Bullen, P. S. (*with* Mitrinović, D. S.; Vasić, P. M.) ★ Means and their inequalities. **89d:26003**
Mitrinović, D. S. *see* **Bullen, P. S.; et al., 89d:26003**
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(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89f:41001**
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Neudecker, Heinz *see* **Magnus, Jan R., 89g:15001**
Przeworska-Rolewicz, Danuta ★ Algebraic analysis. **89m:00005**
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26–03 Historical (must also be assigned at least one classification number from Section 01)

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Breidert, Wolfgang Berkeleys Kritik an der Infinitesimalrechnung. [Berkeley's critique of the infinitesimal calculus] **89m:01043**
(Cauchy, A.-L.) *see* **Laugwitz, Detlef, 89a:01036**
(Chobanov, Georgi Iv.) *see* **Gindikin, S. G., 89i:01076**
Crossley, John N. ★ The emergence of number. **89d:01002**
(Egorov, D. F.) *see* **Shields, Allen, 89b:01060**
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(Hudde, Johan) *see* **Grootendorst, A. W., 89e:01021**
(Kantorovich, L. V.) *see* **Vladimirov, D. A., 89h:01049**
Kudryavtsev, L. D. The papers of S. M. Nikol′skiĭ on the theory of differentiable functions of several variables. (Russian) **89d:01076**
Laugwitz, Detlef Infinitely small quantities in Cauchy's textbooks. (French and German summaries) **89a:01036**

(Lusin, Nicolas) *see* **Pepe, Luigi, 89c:01081**
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Panteki, M. William Wallace and the introduction of continental calculus to Britain: a letter to George Peacock. (French and German summaries) **89f:01038**
(Peacock, George) *see* **Panteki, M., 89f:01038**
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(Ramanujan, Srinivasa) *see* **Gindikin, S. G., 89i:01076**
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  Birth of Ramanujan, Srinivasa *see* **Gindikin, S. G., 89i:01076**
Biography:
  Ramanujan, Srinivasa *see* **Gindikin, S. G., 89i:01076**

26-06 Proceedings, conferences, etc.

(Henstock, Ralph) *see* **Symposium: Real Analysis, 89j:26003**

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Biography:
  Henstock, Ralph ★ Twelfth Summer Symposium in Real Analysis. **89j:26003**
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  Real Analysis ★ Twelfth Summer Symposium in Real Analysis. **89j:26003**

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

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Ji, Zhi Fang Equivalent forms of the continuity property of the real numbers. (Chinese) **89j:26004**
Li, Ji Qing A test for extreme values of quotients of certain functions. (Chinese) (Not in MR)
Newman, Donald J. (*with* Parsons, Torrence) On monotone subsequences. (Not in MR)
Parsons, Torrence *see* **Newman, Donald J.**, (Not in MR)
Toader, Gh. Generalized means and double sequences. **89e:26002**
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Dotto, Oclide José The delta function. (Portuguese) **89j:26002**
Fabrykowski, J. On continued fractions and a certain example of a sequence of continuous functions. **89i:40001**
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Miller, Lejla *see* **Miller, Harry I., 89e:26026**
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26A06 One-variable calculus

Arias de Reyna Martínez, Juan A generalized mean-value theorem. **89m:26001**
Arora, Ashok K. (*with* Goel, Sudhir K.; Rodriguez, Dennis M.) Special integration techniques for trigonometric integrals. **89e:26004**
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Huang, Xun Cheng A discrete L'Hôpital's rule. **89h:26002**
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Zhuang, Ya Dong A condition for a periodic function to have a smallest positive period. (Chinese) **89h:26003**

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Tritschler, J. *see* **Lasser, R., 89m:26003**
Zalcman, Lawrence Positive derivatives and increasing functions. **89f:26005**

26A09 Elementary functions

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Muntean, Ioan Relations among some classes of real functions on a compact interval. (Romanian summary) **89e:26005**
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— The ubiquitous π. II. **89c:11184**
Vardi, Ilan Integrals, an introduction to analytic number theory. **89b:11073**
Zabara, S. I. Generalized Taylor series for some classes of functions. (Russian. English summary) **89g:41020**

26A12 Rate of growth of functions, orders of infinity, slowly increasing functions [see also 26A48]

Geluk, J. L. (*with* de Haan, L.) ★ Regular variation, extensions and Tauberian theorems. **89a:26002**
de Haan, L. *see* **Geluk, J. L., 89a:26002**
Omey, E. (*with* Willekens, Eric) Π-variation with remainder. **89g:26001**
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26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.}

Beer, Gerald (*with* Kenderov, P. S.) On the ARG MIN multifunction for lower semicontinuous functions. **89f:26001**
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Heath, Jo K-to-1 functions on arcs for K even. **89b:26002**
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Natkaniec, Tomasz *see* **Grande, Zbigniew, 89d:26005**
Pawlak, Ryszard Jerzy On local characterization of Darboux functions. **89j:26006**
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Dotto, Oclide José The delta function. (Portuguese) **89j:26002**
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Tabor, Józef On functions behaving like additive functions. **89h:39015**
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26A16 Lipschitz (Hölder) classes

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Nugari, Rita Continuity and differentiability properties of the Nemitskiĭ operator in Hölder spaces. **89c:47084**
Pourciau, Bruce Global invertibility of nonsmooth mappings. **89f:58014**
Younis, M. S. Fourier transformations of functions with symmetrical differences. **89k:42009**

26A18 Iteration [see also 39B10, 47H10, 54H25, 58F08]

Blanton, George Smoothness in disjoint groups of real functions under composition. **89h:26004**
Janková, Katarína On the stability of chaotic functions. (Russian and Slovak summaries) **89c:26002**
Leven, R. W. *see* **Pompe, B., 89m:26006**
Lutzky, M. Counting stable cycles in unimodal iterations. **89j:26007**
Nigro, Alfio On a particular class of iterated transformations. An application involving entire rational functions. (Italian. English summary) **89k:26002**

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Tchuente, Maurice Cycles generated by sequential iterations. **89j:26008**
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— (*with* Lyubich, M. Yu.) Generic behavior of the trajectories of mappings of an interval. (Russian) **89k:58138**
Boyarsky, A. Singular perturbations of piecewise monotonic maps of the interval. **89j:58065**
— (*with* Byers, W.; Gauthier, P.) Higher-dimensional analogues of the tent maps. **89h:58111**
Breton, Pierre *see* **Fourcade, Bertrand; et al., 89b:82064**
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Sklar, A. The structure of one-dimensional flows with continuous trajectories. (Serbo-Croatian summary) **89b:58180**
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26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

Brown, J. B. (*with* Humke, P.; Laczkovich, M.) Measurable Darboux functions. **89b:26003**
Cichoń, J. (*with* Morayne, M.) Universal functions and generalized classes of functions. **89c:26003**
Filipczak, Małgorzata On generators for Borel sets. **89b:26004**
Grande, Zbigniew Sur la quasi-continuité et la quasi-continuité approximative. (English summary) [Quasicontinuity and approximate quasicontinuity] **89m:26007**
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Jastrzębski, Jan Maximal additive families for some classes of Darboux functions. **89e:26006**
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Lorefice, M. Fiorella (*with* Riccobono, Giuseppa) Darboux derivatives and quasi-Darboux functions. (Italian. English summary) **89e:26007**
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Natkaniec, Tomasz On lattices generated by Darboux functions. (Russian summary) **89e:26008**
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Pawlak, Ryszard Jerzy On M_2' and Denjoy properties. **89c:26004**
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Zygmunt, Wojciech On the Scorza-Dragoni's type property of the real function semicontinuous in the second variable. (Italian summary) **89f:26015**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Abreu, J. Mean value for the generalized gradient. (Spanish) **89c:26005**

Cordy, Clifford B. On the relationship between the external intersection condition and the intersection condition for path derivatives. **89f:26003**

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— Qualitative derivates and derivatives. **89m:26009**

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Savotin, A. I. Some cases of the nondifferentiability of continuous functions that can be represented by series. (Russian) **89c:26011**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Bélair, Jacques Sur le calcul de la dimension fractale. (English summary) [Calculating fractal dimension] **89a:26006**

Evans, Michael Jon Approximate smoothness of continuous functions. **89m:26011**

Hata, Masayoshi On continuous functions with no unilateral derivatives. (French summary) **89i:26006**

— On Weierstrass's nondifferentiable function. (French summary) **89e:26013**

— Singularities of the Weierstrass type functions. **89m:26012**

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Norton, Alec Continued fractions and differentiability of functions. **89j:26009**

Simon, Károly Some dual statements concerning Wiener measure and Baire category. **89k:26003**

26A30 Singular functions, Cantor functions, functions with other special properties

Borsík, Ján (*with* Doboš, Jozef) On metric preserving functions. **89a:26007**

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26A33 Fractional derivatives and integrals

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26A39 Denjoy and Perron integrals, other special integrals

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26A42 Integrals of Riemann, Stieltjes and Lebesgue type [see also 28–XX]

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26A45 Functions of bounded variation, generalizations

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Lu, Zhi Kang On ordered Λ-bounded variation. (Chinese. English summary) **89d:26010**

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26A46 Absolutely continuous functions

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Szigeti, Ferenc ★ Composition of Sobolev functions and applications. **89g:46071**

26A48 Monotonic functions, generalizations

Atanassov, R. D. (*with* Tsoukrovski, U. V.) Some properties of a class of logarithmically completely monotonic functions. **89e:26023**

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Freiling, C. (*with* Rinne, D.) A symmetric density property: monotonicity and the approximate symmetric derivative. **89g:26009**

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26A51 Convexity, generalizations

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— On the convexity of high order of sequences. **89i:26010**

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26Bxx Functions of several variables

26B05 Continuity and differentiation questions

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Simons, Stephen The continuity of inf sup, with applications. **89b:26011**

Strońska, Ewa *see* **Grande, Zbigniew; et al., 89m:26021**

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Zerekidze, T. Sh. Differentiation of integrals by bases in convex sets. (Russian) **89c:26019**

Zygmunt, Wojciech On the Scorza-Dragoni's type property of the real function semicontinuous in the second variable. (Italian summary) **89f:26015**

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Chen, De Xiu Discrimination of strong [weak] differentiability of vector functions and characterizations of continuity of their derivatives. (Chinese. English summary) **89c:26020**

Cherkasskiĭ, B. V. *see* **Nesterov, Yu. E., 89b:90190**

Delfour, M. C. (*with* Zolésio, J.-P.) Shape sensitivity analysis via min max differentiability. **89h:49010**

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He, Chong Generalized derivatives of a region function and its applications. **89e:26011**

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Korevaar, J. Some C^N capacities and applications—the lemma on mixed derivatives revisited. (Serbo-Croatian summary) **89a:32003**

Nesterov, Yu. E. (*with* Cherkasskiĭ, B. V.) Lexicographic rules for the differentiation of nonsmooth functions. **89b:90190**

Rainwater, John Yet more on the differentiability of convex functions. **89m:46081**

Reshetnyak, Yu. G. The N condition for spatial mappings of the class $W^1_{n,\mathrm{loc}}$. (Russian) **89b:46049**

Stokolos, A. M. On the differentiation of integrals of functions from $L\varphi(L)$. **89f:28008**

Tarasenko, A. M. On the Lipschitz properties of ε-subdifferential mappings. (Russian. English summary) **89i:26014**

Xia, Zun Quan Mean value theorems in quasidifferential calculus. **89d:90168**

Zolésio, J.-P. *see* **Delfour, M. C., 89h:49010**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Items with secondary classifications in 26B10

Gopala Krishna, J. (*with* Usha Sree Devi, M.) General forms of inverse and implicit function theorems treatment closer to intuition through nonstandard techniques. **89k:26014**

Labelle, Gilbert Some new computational methods in the theory of species. **89f:05023**

Meisters, Gary H. (*with* Olech, Czesław) A poly-flow formulation of the Jacobian conjecture. (Russian summary) **89j:13005**

Montalvo Durán, Francisco Change of the variable in multiple integrals. (Spanish) **89e:26027**

Nguyen Dong Yen Implicit function theorems for set-valued maps. **89k:58031**

Olech, Czesław *see* **Meisters, Gary H., 89j:13005**

Riekstiņa, V. An asymptotic expansion of some implicit functions. (Russian) **89j:41047**

Usha Sree Devi, M. *see* **Gopala Krishna, J., 89k:26014**

26B12 Calculus of vector functions

Chen, De Xiu Discrimination of strong [weak] differentiability of vector functions and characterizations of continuity of their derivatives. (Chinese. English summary) **89c:26020**

Items with secondary classifications in 26B12

Magnus, Jan R. (*with* Neudecker, Heinz) ★ Matrix differential calculus with applications in statistics and econometrics. **89g:15001**

Neudecker, Heinz *see* **Magnus, Jan R., 89g:15001**

Shidfar, Afima Abdullah On the Liapunov and Kellogg surfaces. **89g:31003**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Bai, Yu Lan (*with* Chen, Shu Tao) The problem of interchanging the order for doubly iterated generalized integrals. (Chinese) (Not in MR)

Chen, Shu Tao *see* **Bai, Yu Lan**, (Not in MR)

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Brandi, Primo (*with* Salvadori, Anna) The Weierstrass integral of the calculus of variations along BV curves, in comparison with the integrals of Lebesgue and Serrin. (Italian) **89m:49080**

Matsumoto, Kohji (*with* Miyazaki, Tetsuro) On some hypersurfaces of high-dimensional tori related with the Riemann zeta-function. **89c:11138**

Miyazaki, Tetsuro *see* **Matsumoto, Kohji, 89c:11138**

Nadirashvili, N. S. On a problem of Zygmund. (Russian. English and Georgian summaries) **89f:26014**

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Zambitskiĭ, M. K. (*with* Zykov, A. A.) Rectification of sets in Euclidean spaces. (Russian) **89f:28021**

Zykov, A. A. *see* **Zambitskiĭ, M. K., 89f:28021**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

Dassios, George (*with* Kiriaki, Kiriakie) A useful application of Gauss theorem. **89d:26011**

Jarník, Jiří (*with* Kurzweil, Jaroslav) A new and more powerful concept of the PU-integral. **89c:26022**

Kiriaki, Kiriakie *see* **Dassios, George, 89d:26011**

Kurzweil, Jaroslav *see* **Jarník, Jiří, 89c:26022**

London, R. R. A new form of Green's theorem in the plane. **89b:26012**

Pfeffer, Washek F. The multidimensional fundamental theorem of calculus. **89b:26013**

— Stokes theorem for forms with singularities. (French summary) **89k:26008**

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Kuusalo, Tapani A Green formula with multiplicities. **89m:30083**

Schwerdtfeger, P. (*with* Silberbach, H.) Multicenter integrals over long-range operators using Cartesian Gaussian functions. **89b:81258**

Silberbach, H. *see* **Schwerdtfeger, P., 89b:81258**

26B25 Convexity, generalizations

Andrica, Dorin *see* **Pečarić, Josip E., 89k:26009**

Aubert, G. On a counterexample of a rank 1 convex function which is not polyconvex in the case $N = 2$. **89f:26016**

Buhăescu, T. T. On directional derivative of quasiconvex functions. (French and Romanian summaries) **89a:26021**

Cojocaru, Ion αm-d-convex functions. (Romanian) **89e:26028**

Ichimori, Tetsuo *see* **Maeda, Shigeru, 89h:26017**

Jin, Jing Ping A new proof of the convex function theorem. (Chinese. English summary) **89h:26016**

Kaufmann, Heinz On directions of strictness, affinity and constancy and the minimum set of a proper convex function. **89i:26012**

Kominek, Z. On additive and convex functionals. (Serbo-Croatian summary) **89e:26029**

Kuczma, Marek On a result of Z. Kominek. (Serbo-Croatian summary) **89d:26012**

Maeda, Shigeru (*with* Ichimori, Tetsuo) Unimodality of certain functions of several variables. **89h:26017**

Mukherjee, Rathindra Nath[1] *see* **Yadav, Shri Ram, 89m:26022**

Ng, C. T. On midconvex functions with midconcave bounds. **89d:26013**

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Tarasenko, A. M. On the Lipschitz properties of ε-subdifferential mappings. (Russian. English summary) **89i:26014**

Yadav, Shri Ram (*with* Mukherjee, Rathindra Nath[1]) Some applications of arcwise connected functions for minimax inequalities and equalities. **89m:26022**

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Alart, P. Algorithmes de calcul de $\overline{x} = \operatorname{prox}_f y$. [Algorithms for computing $\overline{x} = \operatorname{prox}_f y$] **89i:65067**

Alzer, Horst Über Lehmers Mittelwertfamilie. [On Lehmer's family of mean values] **89c:26032**

Avriel, Mordecai (*with* Diewert, Walter E.; Schaible, Siegfried; Zang, Israel) ★ Generalized concavity. **89e:90155**

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Ceppitelli, Rita *see* **Bardaro, Carlo, 89h:90260**

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Durier, R. Weighting factor results in vector optimization. **89i:90079**

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Hackman, Steven T. (*with* Passy, Ury) Projectively-convex sets and functions. **89f:90019**

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Hurwicz, Leonid (*with* Jordan, James S.; Kannai, Yakar) On the demand generated by a smooth and concavifiable preference ordering. **89e:90012**

Jordan, James S. *see* **Hurwicz, Leonid; et al., 89e:90012**

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Kaul, R. N. (*with* Lyall, Vinod) Nonconvex and semi-differentiable functions. **89m:90141**

Kōnig, Heinz On the abstract Hahn-Banach theorem due to Rodé. **89f:46010**

Kruzhalov, O. A. An example of a quasiconvex but not polyconvex function. (Russian) **89b:49004**

Lyall, Vinod *see* **Kaul, R. N., 89m:90141**

Martínez-Legaz, Juan-Enrique Quasiconvex duality theory by generalized conjugation methods. **89j:90203**

Nikodem, Kazimierz On concave and midpoint concave set-valued functions. (Serbo-Croatian summary) **89g:39017**

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Simons, Stephen The continuity of inf sup, with applications. **89b:26011**

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Zang, Israel *see* **Avriel, Mordecai; et al., 89e:90155**

Zhang, Yu Ming^3 Hadamard inequalities for convex functions. (Chinese. English summary) **89k:26011**

26B30 Absolutely continuous functions, functions of bounded variation

Meerschaert, Mark M. Regular variation in $\mathbf{R}^k$. **89b:26014**

Shi, Xian Liang (*with* Torchinsky, Alberto) Functions of vanishing mean oscillation. **89c:26023**

Torchinsky, Alberto *see* **Shi, Xian Liang, 89c:26023**

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26B35 Special properties of functions of several variables, Hölder conditions, etc.

Aslanski, M. S. Structural properties of the graphs of some types of functions. (Russian summary) **89b:26015**

Chimev, K. N. (*with* Gyudzhenov, I. D.) Subfunctions of functions with three strongly essential variables. (Russian. English summary) **89b:26016**

— Strongly essential variables and separable sets of arguments of function. (Russian summary) **89b:26017**

— (*with* Shtrakov, Slavcho Vl.) On the dominant sets of variables for the functions. (Russian summary) **89c:26024**

Grudo, È. I. (*with* Lasyĭ, P. G.) Determination of the characteristic vectors of functions of several variables and of stability in the first approximation. **89e:26031**

Gyudzhenov, I. D. *c*-strongly essential variables of functions in P_k. (Russian. English summary) **89b:26018**

— *see also* **Chimev, K. N., 89b:26016**

Lasyĭ, P. G. *see* **Grudo, È. I., 89e:26031**

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Shtrakov, Slavcho Vl. Mutually dominant sets of variables for the functions. (Russian summary) **89b:26019**

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— *see also* **Chimev, K. N., 89c:26024**

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Acerbi, Emilio (*with* Fusco, Nicola) An approximation lemma for $W^{1,p}$ functions. **89m:46060**

Bondarenko, B. A. (*with* Karachik, V. V.) Analogues of the Euler formula for generalized-homogeneous polynomials and functions. (Russian) **89a:26022**

Chang, Sun-Yung A. Extremal functions in a sharp form of Sobolev inequality. **89e:53060**

Fusco, Nicola *see* **Acerbi, Emilio, 89m:46060**

Giaquinta, Mariano (*with* Ivert, Per-Anders) Partial regularity for minima of variational integrals. **89d:49021**

Hossain, Md. Fazlee Metric properties in analytic set. **89h:32015**

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Korevaar, J. Some $\mathbf{C}^N$ capacities and applications—the lemma on mixed derivatives revisited. (Serbo-Croatian summary) **89a:32003**

Kruzhalov, O. A. An example of a quasiconvex but not polyconvex function. (Russian) **89k:49004**

Kufarev, B. P. *K*-continuity and the limits of functions of the class $\mathscr{L}_p^1$ at boundary points. **89f:46073**

Maeda, Shigeru (*with* Ichimori, Tetsuo) Unimodality of certain functions of several variables. **89h:26017**

Norton, Alec Functions not constant on fractal quasi-arcs of critical points. **89m:28013**

Warga, J. Homeomorphisms and local C^1 approximations. **89g:49023**

Wingren, Peter Lipschitz spaces and interpolating polynomials on subsets of Euclidean space. **89m:41003**

26B40 Representation and superposition of functions

Mitchell, John William (*with* Rubel, Lee A.) Every smooth map of Euclidean space into itself is an expansion followed by a contraction. **89m:26023**

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Gokhman, A. O. Symmetric and sign-variable differentiable functions. (Russian) **89i:26011**

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Ng, C. T. On midconvex functions with midconcave bounds. **89d:26013**

Ngô Anh Tú Lokale Darstellungen differenzierbarer Funktionen auf Banachräumen. (English and Russian summaries) [Local representations of differentiable functions on Banach spaces] **89h:58018**

26B99 None of the above, but in this section

Druck, Iole F. (*with* Reyes, Gonzalo E.) Sur la convergence de suites de fonctions suivant des filtres. [On the convergence of sequences of functions over filters] **89m:26024**

Reyes, Gonzalo E. *see* **Druck, Iole F., 89m:26024**

Trif, Damian The approximation of fixed points of C^1-mappings. **89m:26025**

Tudosie, C. On some problems of operator analysis. (*see* **89f:00016**)

— On some vector operators and some operator differential equations. (*see* **89f:00016**)

Items with secondary classifications in 26B99

Borzymowski, Andrzej (*with* Sadowski, Antoni) On some sequences of iterates. **89g:39009**

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Kim, Sang-Yoon (*with* Hu, Bambi) Singularity spectrum for period *n*-tupling in area-preserving maps. **89i:58089**

Kucharz, W. Analytic and differentiable functions vanishing on an algebraic set. **89b:32014**

Nikol′skiĭ, Yu. S. Integral estimates for differentiable functions in weighted anisotropic spaces on unbounded domains. (Russian) **89h:46052**

Sadowski, Antoni *see* **Borzymowski, Andrzej, 89g:39009**

Ślęzak, Włodzimierz A. Concerning the Baire class of transformations on product spaces. **89i:26004**

Trenčevski, Kostadin A note on nonexistence for some classes of continuous (3, 2) groups. **89g:20117**

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26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, inequalities, etc.

Beauzamy, Bernard Inégalité de Jensen pour les polynômes avec concentration aux bas degrés. [Jensen's inequality for polynomials with concentration at low degrees] (*see* **89b:46005**)

Bondarenko, B. A. (*with* Karachik, V. V.) Analogues of the Euler formula for generalized-homogeneous polynomials and functions. (Russian) **89a:26022**

Karachik, V. V. *see* **Bondarenko, B. A., 89a:26022**

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Neuman, Edward On complete symmetric functions. **89d:26015**

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Xue, Yin Chuan *see* **Zhou, Song Ping, 89j:26012**

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Aziz, Abdul^1 A new proof and a generalization of a theorem of de Bruijn. **89k:30002**

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Withers, Wm. Douglas Folding polynomials and their dynamics. **89g:58178**

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

Fuller, A. T. Aperiodicity determinants expressed in terms of roots. **89m:26026**

Han, Jing Qing *see* **Liu, Yong Qing; et al.,** (Not in MR)

Harris, Gary Alvin (*with* Martin, Clyde Franklin) Large roots yield large coefficients. An addendum to: "The roots of a polynomial vary continuously as a function of the coefficients" [Proc. Amer. Math. Soc. **100** (1987), no. 2, 390–392; MR 88h:30006]. **89c:26026**

Hasibeder, Günther (*with* Länger, Helmut) Simple criteria for asymptotic stability, neutral stability, and unstability. **89a:26023**

Jin, Wei Yan *see* **Liu, Yong Qing; et al.,** (Not in MR)

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Qin, Yuan Xun *see* **Liu, Yong Qing; et al.,** (Not in MR)

Xie, Lang (*with* Xie, Lin) On the optimum criterion of polynomial stability. **89h:26018**

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Li, Chi-Kwong Polynomials and numerical ranges. **89k:15044**
Li, Hung C. The exact probability that the roots of quadratic, cubic, and quartic equations are all real if the equation coefficients are random. **89j:60069**
Li, Tien-Yien (*with* Sauer, Tim; Yorke, James A.) Numerically determining solutions of systems of polynomial equations. **89d:65057**
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Sauer, Tim *see* **Li, Tien-Yien; et al., 89d:65057**
Simeonov, R. On the theorem of Ruffini-Abel. **89f:32029**
Sonnenschein, Jakob On certain polynomial series. **89f:30009**
Yanagiwara, Hiroki *see* **Matsuda, Takashi; et al., 89g:12006**
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Zulehner, W. Numerische Lösung polynomialer Gleichungssysteme durch Kurvenverfolgung. [Numerical solution of polynomial equation systems by curve tracing] **89m:65055**

26C15 Rational functions [see also 14G30]

Items with secondary classifications in 26C15

Simeonov, R. On the theorem of Ruffini-Abel. **89f:32029**

26C99 None of the above, but in this section

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Clausing, Achim Polynomial two-point expansions. **89j:41044**

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39C05.}

Hardy, Godfrey Harold (*with* Littlewood, J. E.; Pólya, George) ★ Inequalities. **89d:26016**
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Vasić, P. M. *see* **Bullen, P. S.; et al., 89d:26003**

26D05 Inequalities for trigonometric functions and polynomials

Rahman, Q. I. (*with* Schmeisser, G.) Markov-Duffin-Schaeffer inequality for polynomials with a circular majorant. **89f:26019**
Schmeisser, G. *see* **Rahman, Q. I., 89f:26019**

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Babenko, V. F. Comparison theorems and inequalities of Bernstein type. (Russian) **89e:41016**
Corach, G. (*with* McGowan, J.; Porta, Horacio) Some inequalities for the triangle. **89k:51022**
Hossain, Md. Fazlee Metric properties in analytic set. **89h:32015**
Jonsson, Alf Markov's inequality and local polynomial approximation. **89e:41017**
McGowan, J. *see* **Corach, G.; et al., 89k:51022**
Neuman, Edward On complete symmetric functions. **89d:26015**
Porta, Horacio *see* **Corach, G.; et al., 89k:51022**

26D10 Inequalities involving derivatives and differential and integral operators

Baĭnov, D. D. *see* **Simeonov, P. S., 89c:26031**
Bergweiler, Walter An inequality for real functions with applications to function theory. **89m:26027**
Bishop, N. T. The Poincaré inequality for a vector field with zero tangential or normal component on the boundary. **89h:26019**
Brothers, John E. (*with* Ziemer, William P.) Minimal rearrangements of Sobolev functions. **89g:26013**
Brown, Richard C. (*with* Hinton, D. B.) Weighted interpolation inequalities of sum and product form in $\mathbf{R}^n$. **89c:26027**
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— (*with* Pečarić, Josip E.) On the Bellman generalization of Steffensen's inequality. III. **89k:26012**

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26Exx Miscellaneous topics [see also 58Cxx]

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Deng, Guan Tie Une condition nécessaire et suffisante pour la quasi-analyticité de Mandelbrojt sur une demi-droite. (English summary) [A necessary and sufficient condition for quasi-analyticity in the sense of Mandelbrojt on the half line] **89f:26026**

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Pawłucki, Wiesław (*with* Pleśniak, Wiesław) Extension of C^∞ functions from sets with polynomial cusps. **89b:58026**
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26E15 Calculus of functions on infinite-dimensional spaces

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Linichuk, R. S. On the differentiability of multivalued functions. (Russian) **89a:26033**

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Artstein, Zvi (*with* Prikry, Karel) Carathéodory selections and the Scorza Dragoni property. **89a:49014**
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Beer, Gerald On the Young-Fenchel transform for convex functions. **89i:49006**
Castaing, C. Quelques résultats de convergence dans les inclusions differentielles. [Some results on convergence in differential inclusions] **89j:34020**
Corley, H. W. Optimality conditions for maximizations of set-valued functions. **89f:90134**
Frankowska, H. Théorèmes d'application ouverte et de fonction inverse. (English summary) [Some open mapping and inverse mapping theorems] **89d:58014**
Giannessi, F. Theorems of the alternative for multifunctions with applications to optimization: general results. **89a:90123**
Loewen, Philip D. The proximal subgradient formula in Banach space. **89k:49010**
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26E35 Nonstandard analysis [see also 03H05]

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Adda, Ph. Contrôlabilité des systèmes bilinéaires généraux et homogènes dans $\mathbf{R}^2$. (English summary) [Controllability of general and homogeneous bilinear systems in $\mathbf{R}^2$] **89f:93005**
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Benninghofen, Benjamin (*with* Richter, Michael M.) A general theory of superinfinitesimals. **89b:03106**
van den Berg, Imme ★ Nonstandard asymptotic analysis. **89g:03097**
Bobo, S. (*with* Benhabib, Kety; Baba-Hamed, Ch.) Technique des régionalisations: un petit essai sur l'exponentielle. [The regionalization method: a brief essay on the exponential] **89e:03115**
Cartier, Pierre (*with* Feneyrol-Perrin, Yvette) Comparaison des diverses théories d'intégration en analyse non standard. (English summary) [Comparison among various integration theories in nonstandard analysis] **89m:28036**
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— *see also* **Nonstandard analysis and its applications, 89m:03060**
Druck, Iole F. (*with* Reyes, Gonzalo E.) Sur la convergence de suites de fonctions suivant des filtres. [On the convergence of sequences of functions over filters] **89m:26024**
Feneyrol-Perrin, Yvette Interprétation non standard d'une probabilité standard. [Nonstandard interpretation of a standard probability] **89g:03098**
— *see also* **Cartier, Pierre, 89m:28036**
Forti, Marco (*with* Honsell, Furio) On the ordering of nonstandard real numbers. (Italian. English summary) **89f:03064**
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Impens, C. Local microcontinuity of nonstandard polynomials. **89a:03125**
Kessler, Christoph *see* **Cutland, Nigel J.; et al., 89k:03085**
Kopp, P. Ekkehard *see* **Cutland, Nigel J.; et al., 89k:03085**
Kutateladze, S. S. Infinitesimals and the calculus of tangents. (Russian) **89g:03099**
Laugwitz, Detlef ★ Zahlen und Kontinuum. (German) [Numbers and continuum] **89c:03103**
— Hidden lemmas in the early history of infinite series. **89g:01031**
— Infinitely small quantities in Cauchy's textbooks. (French and German summaries) **89a:01036**
Mantilla, I. (*with* Muñoz Quevedo, José M.; Takeuchi, Yu) The C-topology of $\mathbf{R}^*$. (Spanish) **89b:03108**
Muñoz Quevedo, José M. *see* **Mantilla, I.; et al., 89b:03108**
Neves, Vitor M. C. Infinitesimal calculus in HM spaces. **89i:46079**
Pasini, Leonardo Generalized Hardy fields in several variables. **89k:12004**
Reyes, Gonzalo E. *see* **Druck, Iole F., 89m:26024**
Richter, Michael M. *see* **Benninghofen, Benjamin, 89b:03106**
Robert, Alain Retour au théorème de Siegel-Mahler-Roth. [Return to the Siegel-Mahler-Roth theorem] **89c:11047**
— ★ Nonstandard analysis. **89a:03126**
Ross, David Andrew *see* **Cutland, Nigel J.; et al., 89k:03085**
Sun, Yeneng A nonstandard proof of the Riesz representation theorem for weakly compact operators on $C(\Omega)$. **89i:47059**
Takeuchi, Yu *see* **Mantilla, I.; et al., 89b:03108**

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Conference:
  Nonstandard Analysis and its Applications ★ Nonstandard analysis and its applications. **89m:03060**
Hull ★ Nonstandard analysis and its applications. **89m:03060**
Nonstandard analysis and its applications ★ Nonstandard analysis and its applications. **89m:03060**

26E99 None of the above, but in this section

Bennett, A. Wayne *see* **Tucker, Jerry H.; et al., 89m:26035**
Liu, Kai Di (*with* Wu, He Qin) Comparable infinitesimals and their application. (Chinese) (Not in MR)
Tapia, Moiez A. *see* **Tucker, Jerry H.; et al., 89m:26035**
Tucker, Jerry H. (*with* Tapia, Moiez A.; Bennett, A. Wayne) Boolean integral calculus. **89m:26035**
Wu, He Qin *see* **Liu, Kai Di**, (Not in MR)

Items with secondary classifications in 26E99

Bell, J. L. Infinitesimals. **89i:03120**
Dimiev, V. G. Fuzzing functions. (Bulgarian. English and Russian summaries) **89i:03104**

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Elementary exposition; textbooks

Gramain, André ★ Intégration. (French) [Integration] **89m:28001**
Ivanov, L. D. ★ Интегрирование в многомерном пространстве. (Russian) [Integration in a multidimensional space] (Not in MR)
Kelley, John L. (*with* Srinivasan, T. P.) ★ Measure and integral. Vol. 1. **89e:28001**
Rao, M. M. ★ Measure theory and integration. **89k:28001**
Ray, William O. ★ Real analysis. **89c:28001**
Srinivasan, T. P. *see* **Kelley, John L., 89e:28001**

Items with secondary classifications in 28–01

Billingsley, Patrick ★ Prawdopodobieństwo i miara. (Polish) [Probability and measure] **89b:60001**
(Ferreira, A. V.) *see* **Lojasiewicz, Stanisław, 89e:26001**
Gvishiani, A. D. *see* **Kirillov, A. A., 89j:46001**
Kirillov, A. A. (*with* Gvishiani, A. D.) ★ Теоремы и задачи функционального анализа. (Russian) [Theorems and problems of functional analysis] **89j:46001**
(Kizeweter, Krystyna) *see* **Billingsley, Patrick, 89b:60001**
(Kosiek, M.) *see* **Łojasiewicz, Stanisław, 89e:26001**
(Lawden, G. H.) *see* **Łojasiewicz, Stanisław, 89e:26001**
Łojasiewicz, Stanisław ★ An introduction to the theory of real functions. **89e:26001**
(Mlak, W.) *see* **Lojasiewicz, Stanisław, 89e:26001**
Morgan, Frank ★ Geometric measure theory. **89f:49036**
(Opial, Z.) *see* **Łojasiewicz, Stanisław, 89e:26001**
(Roguski, Janusz E.) *see* **Billingsley, Patrick, 89b:60001**
Torchinsky, Alberto ★ Real variables. **89d:00003**
Zhang, Ming Yong ★ Xiandai fenxi jichu. (Chinese) [Foundations of modern analysis] **89k:00003**

28–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 28–02

England, James W. *see* **Martin, Nathaniel F. G., 89m:28032**
(Kaĭmanovich, V. A.) *see* **Martin, Nathaniel F. G., 89m:28032**
Martin, Nathaniel F. G. (*with* England, James W.) ★ Математическая теория энтропии. (Russian) [Mathematical theory of entropy] **89m:28032**
Muldowney, P. ★ A general theory of integration in function spaces, including Wiener and Feynman integration. **89i:28006**
(Vershik, A. M.) *see* **Martin, Nathaniel F. G., 89m:28032**

28–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 28–03

(Cavalieri, Bonaventura) *see* **Terregino, Giuseppe, 89h:01023**
(Egorov, D. F.) *see* **Shields, Allen, 89b:01060**
Hankel, Hermann Recherches sur les fonctions ayant une infinité d'oscillations et sur les fonctions discontinues. [Research on functions with an infinite number of oscillations and discontinuous functions] **89f:01090**
(Luzin, N. N.) *see* **Shields, Allen, 89b:01060**
Mawhin, J. Problème de Cauchy pour les équations différentielles et théories de l'intégration: influences mutuelles. [The Cauchy problem for differential equations and theories of integration: mutual influences] **89b:01023**
(Peiffer, Jeanne) *see* **Hankel, Hermann, 89f:01090**
Shields, Allen Luzin and Egorov. **89b:01060**
Terregino, Giuseppe The second "ratio" of Bonaventura Cavalieri. (Italian) **89h:01023**

28–06 Proceedings, conferences, etc.

Items listed otherwise than by author

Seminar:
Convex Analysis ★ Séminaire d'analyse convexe. Vol. 17. (French) [Seminar on convex analysis. Vol. 17] **89c:28002**

Items with secondary classifications in 28–06

(Alexander, J. C.) *see* **Dynamical systems, 89g:58061**

Items listed otherwise than by author

College Park, MD ★ Dynamical systems. **89g:58061**
Dynamical systems ★ Dynamical systems. **89g:58061**
Lecture Notes in Mathematics ★ Dynamical systems. **89g:58061**
Special Year:
Ergodic Theory and Dynamics ★ Dynamical systems. **89g:58061**

28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 04A15, 26A21, 54H05]

Aniszczyk, Bohdan Remarks on σ-algebra of (s)-measurable sets. (Russian summary) **89h:28001**
Balcerzak, Marek The decomposition property of σ-ideals. II. (Serbo-Croatian summary) **89a:28001**
Basile, Achille The convergence with respect to small systems comes from a metric. **89h:28002**
Brown, Gavin Inequalities for measures of sum sets. **89g:28001**
Burke, Maxim R. Recouvrements ponctuellements dénombrables par des ensembles négligeables. [Point countable coverings by sets of measure zero] **89d:28001**
Fremlin, David H. Large correlated families of positive random variables. **89f:28001**
Gubeladze, A. K. On a class of perfect sets. (Russian) **89a:28002**
Haase, H. Metric outer measures of type I in the general setting. **89f:28002**
Hejduk, Jacek On σ-ideal generated by two totally imperfect σ-ideals. (Serbo-Croatian summary) **89a:28003**
Mejlbro, Leif Generalized Vitali systems of uniform type. **89c:28003**
Miller, Harry I. (*with* Šalát, T.) On classes of sets that are small in one sense and large in another. (Serbo-Croatian summary) **89g:28002**
Nizharadze, G. V. On the problems of the existence of absolutely nonmeasurable sets and of the realizability of the Vitali construction. (Russian. English and Georgian summaries. **89c:28004**
Pták, Pavel (*with* Tkadlec, Josef) A note on determinacy of measures. (Russian and Czech summaries) **89m:28002**
Šalát, T. *see* **Miller, Harry I., 89g:28002**
Shortt, Rae Michael Maximally conjugate sigma-algebras represented as hypergraphs. **89m:28003**
— Representation of an abstract measure using Borel-isomorphism types. **89h:28003**
Tkadlec, Josef *see* **Pták, Pavel, 89m:28002**
Weber, Karl Trivializable rings of sets. **89g:28003**
Xenikakis, Polychronis J. Some results on similarities in $\mathbf{R}^n$. **89e:28002**

Items with secondary classifications in 28A05

Aniszczyk, Bohdan (*with* Burzyk, J.; Kamiński, A.) Borel and monotone hierarchies and extension of Rényi probability spaces. **89k:60004**
Becker, Howard S. Borel and analytic one-one parametrizations of the countable sets of reals. **89i:03091**
Burzyk, J. *see* **Aniszczyk, Bohdan; et al., 89k:60004**
Crnjac, M. (*with* Miller, Harry I.) Some negative results in measure theory. (Serbo-Croatia summary) **89i:28001**
Droste, Manfred Super-rigid families of strongly Blackwell spaces. **89e:28006**
Filipczak, Małgorzata On generators for Borel sets. **89b:26004**
Frolík, Z. (*with* Levi, Sandro) Separability of Baire-measurable images of K-analytic spaces. (Italian summary) **89b:54042**
Kamiński, A. *see* **Aniszczyk, Bohdan; et al., 89k:60004**
Kharazishvili, A. B. Borel mappings of metric spaces. (Russian. English and Georgian summaries) **89e:54057**
Levi, Sandro *see* **Frolík, Z., 89b:54042**
Louveau, A. (*with* Saint-Raymond, J.) Borel classes and closed games: Wadge-type and Hurewicz-type results. **89g:03068**
Miller, Harry I. *see* **Crnjac, M., 89i:28001**
Mishkin, V. V. Stabilizers of σ-fields of sets in separable metric spaces and complete group **89g:54086**
Niewiarowski, Jerzy Continuity in the I-density topology. (Serbo-Croatian summary) **89i:26003**
Repický, M. Properties of measure and category in generalized Cohen's and Silver's forcing **89b:03087**
Saint-Raymond, J. *see* **Louveau, A., 89g:03068**
Shortt, Rae Michael Representation of Borel isomorphism by a probability measure. **89m:04002**
Stone, A. H. Borel sets in analytic spaces. **89c:54075**
Vojtáš, Peter The strength of the comparison test versus gaps between convergent and divergent series. **89j:40002**
Wilczyński, Władysław O'Malley property for category density. **89b:26006**

28A10 Real- or complex-valued set functions

Candeloro, Domenico (*with* Martellotti, Anna) An overview of some recent results concerning finitely additive measures. (Italian) **89e:28003**
Cellina, Arrigo (*with* Colombo, Giovanni; Fonda, Alessandro) A continuous version of Liapunov's convexity theorem. (French summary) **89c:28005**
Colombo, Giovanni *see* **Cellina, Arrigo; et al., 89c:28005**
Fonda, Alessandro *see* **Cellina, Arrigo; et al., 89c:28005**
Kindler, Jürgen Supermodular and tight set functions. **89b:28001**
Lešanovský, Antonín Thickness of a family of sets and uniform measures. (Russian and Czech summaries) **89m:28004**
Lipovan, O. The probabilistic and random submeasurability of the set-valued mappings. (Romanian summary) **89j:28001**
Martellotti, Anna Countably additive restrictions of vector-valued quasimeasures with respect to range preservation. (Italian summary) **89k:28002**
— *see also* **Candeloro, Domenico, 89e:28003**
Palko, Vladimír A measure decomposition theorem. (Russian summary) **89h:28004**
Pawlik, Bogdan Approximately additive set functions. **89d:28002**

Items with secondary classifications in 28A10

Berres, Manfred λ-additive measures on measure spaces. **89m:28038**
Glazkov, V. N. On inner and outer measures. **89e:28005**
Kwiecińska, Grażyna On the sup-measurability of functions. (Serbo-Croatian summary) **89f:28012**
Mauldin, R. Daniel (*with* Ulam, Stan) Mathematical problems and games. **89g:04005**
Mikolás, M. Über eine Klasse verallgemeinerter Hilberträume mit Anwendungen. [On a class of generalized Hilbert spaces with applications] **89h:65070**
Ulam, Stan *see* **Mauldin, R. Daniel, 89g:04005**
Ulanovskiĭ, A. M. Unique determination of convolutions of measures in $\mathbf{R}^m$, $m \geq 2$, by restrictions to sets. (Russian) **89m:60033**

28A12 Contents, measures, outer measures, capacities

Armstrong, Thomas E. Strong singularity, disjointness, and strong finite additivity of finitely additive measures. **89h:28005**
Ball, R. N. *see* **Shortt, Rae Michael; et al., 89a:28004**
Bell, Wayne C. (*with* Hagood, John W.) Separation properties and exact Radon-Nikodým derivatives for bounded finitely additive measures. **89e:28004**
Bersenadze, D. K. The Suslin property for measures and a theorem of Carathéodory on the extension of measures. (Russian. English and Georgian summaries) **89d:28003**
Bourgain, J. Construction of sets of positive measure not containing an affine image of a given infinite structures. **89g:28004**
Crnjac, M. (*with* Miller, Harry I.) Some negative results in measure theory. (Serbo-Croatian summary) **89i:28001**
Dougherty, D. J. *see* **Shortt, Rae Michael; et al., 89a:28004**
Glazkov, V. N. On inner and outer measures. **89e:28005**
Goluzina, M. G. On a uniqueness theorem. (Russian. English summary) **89f:28003**
Hackenbroch, Wolfgang Measure extensions by conditional atoms. **89m:28005**
Hagood, John W. *see* **Bell, Wayne C., 89e:28004**
Isakov, N. M. A remark on (T, p)-capacity. **89f:28004**
Kamiński, A. (*with* Sherwood, H.; Taylor, M. D.) Doubly stochastic measures with mass on the graphs of two functions. **89f:28005**
Malyugin, S. A. Extremal extension of a finitely additive measure. **89h:28006**
Meinershagen, Sandra Derivation bases and the Hausdorff measure. **89c:28006**
Mikusiński, Piotr On the completion of measures. **89d:28004**
Miller, Harry I. *see* **Crnjac, M., 89i:28001**
Rezakhanlou, Fraydoun The packing measure of the graphs and level sets of certain continuous functions. **89m:28006**
Sapounakis, A. (*with* Sion, M.) Construction of regular measures. **89f:28006**
Sherwood, H. *see* **Kamiński, A.; et al., 89f:28005**
Shortt, Rae Michael (*with* Dougherty, D. J.; Ball, R. N.) Decomposition theorems for measures. **89a:28004**
Sion, M. *see* **Sapounakis, A., 89f:28006**
Taylor, M. D. *see* **Kamiński, A.; et al., 89f:28005**
Zaĭtsev, G. Yu. An estimate for the measure of almost tangent planes. (Russian) **89c:28007**
Zhu, Jin Fang A note about φ-measures on the space $\mathbf{R}^n$. (Chinese) **89b:28002**

Items with secondary classifications in 28A12

Chakrabarti, Sadasiv (*with* Lahiri, B. K.) Local measurability in topological groups. (Serbo-Croatian summary) **89e:28014**
Cutler, C. D. A note on equivalent interval covering systems for Hausdorff dimension on R. **89h:28008**
Dal Maso, Gianni Γ-convergence and μ-capacities. **89h:31010**
Lahiri, B. K. *see* **Chakrabarti, Sadasiv, 89e:28014**
Lebedev, A. A. A mathematical model for description of random and indefinite factors from unified positions. **89m:60008**
Lešanovský, Antonín Thickness of a family of sets and uniform measures. (Russian and Czech summaries) **89m:28004**
Lipecki, Z. On unique extensions of positive additive set functions. II. **89d:28007**
Makarov, N. G. Conformal mapping and Hausdorff measures. **89g:30044**
Meinershagen, Sandra The symmetric derivation basis measure and the packing measure. **89f:28020**
Palko, Vladimír A measure decomposition theorem. (Russian summary) **89h:28004**
Pawlik, Bogdan Approximately additive set functions. **89d:28002**
Samotij, Krzysztof A counterexample to an F. and M. Riesz-type theorem. **89f:30071**
Szabados, L. B. Causal measurability in chronological spaces. **89k:53059**
Weber, Karl Trivializable rings of sets. **89g:28003**

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Giuliano Antonini, Rita (*with* Zanzotto, Pio Andrea) A general "geometric" condition for measure derivation. (Italian summary) **89f:28007**
Lahiri, B. K. Density topology. **89c:28008**
Ponomarev, S. P. N^{-1}-property of mappings and Luzin's condition (N). **89i:28002**
Stokolos, A. M. On the differentiation of integrals of functions from $L\varphi(L)$. **89f:28008**
Zanzotto, Pio Andrea *see* **Giuliano Antonini, Rita, 89f:28007**

Items with secondary classifications in 28A15

Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Absolute continuity of smooth measures. **89f:28036**
Maltese, George (*with* Niestegge, Gerd) A linear Radon-Nikodým type theorem for C^*-algebras with applications to measure theory. **89f:46123**
Mejlbro, Leif Generalized Vitali systems of uniform type. **89c:28003**
Niestegge, Gerd *see* **Maltese, George, 89f:46123**
Sokhadze, G. A. *see* **Daletskiĭ, Yu. L., 89f:28036**
Tišer, Jaroslav Differentiation theorem for Gaussian measures on Hilbert space. **89m:28023**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Aniszczyk, Bohdan (*with* Frankiewicz, Ryszard; Plewik, Szymon) Remarks on (s)- and Ramsey-measurable functions. (Russian summary) **89f:28009**
Burke, Maxim R. (*with* Fremlin, David H.) A note on measurability and almost continuity. **89c:28009**
Demengel, Françoise (*with* Rauch, J.) Continuité faible des fonctions de mesures (non convexes). (English summary) [Weak continuity of functions of (nonconvex) measures] **89f:28010**
Droste, Manfred Super-rigid families of strongly Blackwell spaces. **89e:28006**
Frankiewicz, Ryszard *see* **Aniszczyk, Bohdan; et al., 89f:28009**
Fremlin, David H. *see* **Burke, Maxim R., 89c:28009**
Johnson, Roy A. (*with* Niewiarowski, Jerzy; Świątkowski, Tadeusz) Small systems convergence and metrizability. **89f:28011**
Kwiecińska, Grażyna On the sup-measurability of functions. (Serbo-Croatian summary) **89f:28012**
Niewiarowski, Jerzy *see* **Johnson, Roy A.; et al., 89f:28011**
Plewik, Szymon *see* **Aniszczyk, Bohdan; et al., 89f:28009**
Rauch, J. *see* **Demengel, Françoise, 89f:28010**
Sempi, Carlo A new metric for weak convergence. (Serbo-Croatian summary) **89g:28005**
Świątkowski, Tadeusz *see* **Johnson, Roy A.; et al., 89f:28011**
Vera, Gabriel Baire measurability of separately continuous functions. **89e:28007**
Yannelis, Nicholas C. Fatou's lemma in infinite-dimensional spaces. **89g:28006**

Items with secondary classifications in 28A20

Alonso, Alberto A counterexample on the continuity of conditional expectations. **89b:60118**
Bergström, Harald Weak limits of probability measures on metric Schauderspaces. **89c:60009**
Choukairi, A. M-convergence, et regularite des martingales multivoques. Épi-martingales. [M-convergence, and regularity of multivalued martingales. Epi-martingales] **89m:60110**
Darmawijaya, Soeparna (*with* Lee, Peng Yee) The controlled convergence theorem for the approximately continuous integral of Burkill. **89c:26013**
Ewert, Janina (*with* Lipiński, J. S.) On relations between continuity, quasi-continuity and cliquishness of maps. **89g:54025**
Fremlin, David H. Large correlated families of positive random variables. **89f:28001**
Grande, Zbigniew (*with* Natkaniec, Tomasz; Strońska, Ewa) Algebraic structures generated by d-quasi-continuous functions. (Russian summary) **89m:26021**
Kallman, Robert R. Subseries and category. **89g:46074**
Kindler, Jürgen Supermodular and tight set functions. **89b:28001**
Lee, Peng Yee A proof of the generalized dominated convergence theorem for Denjoy integrals. **89b:26009**
— *see also* **Darmawijaya, Soeparna, 89c:26013**
Lipiński, J. S. *see* **Ewert, Janina, 89g:54025**
Natkaniec, Tomasz *see* **Grande, Zbigniew; et al., 89m:26021**
Nurekenov, T. K. On some generalizations of a theorem of E. Helly. (Russian. Kazakh summary) **89e:46033**
Strońska, Ewa *see* **Grande, Zbigniew; et al., 89m:26021**
Volpato Martinelli, Giuseppina A characterization of convergence in L^1. (Italian) **89a:40002**
Vovk, V. G. The Kolmogorov-Stout law of the iterated logarithm. **89k:60042**

28A25 Integration with respect to measures and other set functions

Blei, Ron C. Multilinear measure theory and the Grothendieck factorization theorem. **89d:28005**
Maharam, Dorothy Jordan fields and improper integrals. **89f:28013**
Stich, W. J. A. An integral for nonmeasurable correspondences and the Shapley-interval. **89f:28014**

Items with secondary classifications in 28A25

Cartier, Pierre (*with* Feneyrol-Perrin, Yvette) Comparaison des diverses théories d'intégration en analyse non standard. (English summary) [Comparison among various integration theories in nonstandard analysis] **89m:28036**
Dubois, Jacques (*with* M'Khalfi, A.) Une intégrale de type Riemann généralisée contenant l'intégrale de Birkhoff. (English summary) [A generalized Riemann integral containing the Birkhoff integral] **89h:26008**
Feneyrol-Perrin, Yvette *see* **Cartier, Pierre, 89m:28036**
Klement, Erich Peter A Radon-Nikodým theorem for fuzzy-valued measures. **89m:28040**
Masani, P. R. On conditional homomorphisms and seminorms on Banach groups and the unification of operator theory and measure theory. **89j:46046**
M'Khalfi, A. *see* **Dubois, Jacques, 89h:26008**
Montalvo Durán, Francisco Change of the variable in multiple integrals. (Spanish) **89e:26027**
Ohkubo, Hikaru On a class of stochastic integrals. **89h:60090**
— Almost sure convergence for stochastic integrals. **89h:60091**
Szabó, Gy. (*with* Száz, Árpád) The net integral and a convergence theorem. **89h:26010**
Száz, Árpád *see* **Szabó, Gy., 89h:26010**
Valadier, Michel Une singulière forme linéaire singulière sur L^∞. [A singular linear form singular on L^∞] **89k:46043**

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Anastassiou, George A. On the degree of weak convergence of a sequence of finite measures to the unit measure under convexity. **89g:28007**
Bierlein, D. (*with* Stich, W. J. A.) On the extremality of measure extensions. **89m:28007**
Chaurasia, A. R. Convergence of measure in separable Banach space. (Hindi. English summary) **89a:28005**

Dal Maso, Gianni (*with* De Giorgi, Ennio; Modica, Luciano) Weak convergence of measures on spaces of semicontinuous functions. (Italian. English summary) **89g:28008**

De Giorgi, Ennio *see* **Dal Maso, Gianni; et al., 89g:28008**

Modica, Luciano *see* **Dal Maso, Gianni; et al., 89g:28008**

Stich, W. J. A. *see* **Bierlein, D., 89m:28007**

Items with secondary classifications in 28A33

Boyarsky, A. Singular perturbations of piecewise monotonic maps of the interval. **89j:58065**

Chentsov, A. G. Finitely additive measures and problems on the minimum. **89k:49032**

Filter, Wolfgang On measure representations of Riesz spaces. **89m:46008**

Landers, Dieter (*with* Rogge, Lothar) Nonstandard methods for families of τ-smooth probability measures. **89j:28007**

Rhee, WanSoo T. (*with* Talagrand, Michel) Optimal bin packing with items of random sizes. II. **89m:90055**

Rogge, Lothar *see* **Landers, Dieter, 89j:28007**

Salinetti, Gabriella Stochastic optimization and stochastic processes: the epigraphical approach. **89a:90103**

— Distribution functions and epi-convergence. **89k:60036**

Talagrand, Michel *see* **Rhee, WanSoo T., 89m:90055**

28A35 Measures and integrals in product spaces

Zygmunt, Wojciech Product measurability and Scorza-Dragoni's type property. **89m:28008**

Items with secondary classifications in 28A35

Ball, R. N. *see* **Shortt, Rae Michael; et al., 89a:28004**

Beneš, Viktor (*with* Štěpán, Josef) The support of extremal probability measures with given marginals. **89b:60013**

Borell, Christer Real polynomial chaos and absolute continuity. **89d:60078**

Delanghe, R. A note on the product of positive operator valued measures. **89g:28014**

Dougherty, D. J. *see* **Shortt, Rae Michael; et al., 89a:28004**

Gryllakis, Constantinos Products of completion regular measures. **89d:28010**

Hoffmann-Jørgensen, J. The general marginal problem. **89f:46140**

Kamiński, A. (*with* Sherwood, H.; Taylor, M. D.) Doubly stochastic measures with mass on the graphs of two functions. **89f:28005**

Kwiecińska, Grażyna On the sup-measurability of functions. (Serbo-Croatian summary) **89f:28011**

Lamb, Charles W. A comparison of methods for constructing probability measures on infinite product spaces. **89f:60004**

Levenberg, N. (*with* Martin, Gaven J.; Shields, Allen; Zdravkovska, Smilka) Factorizations of Lebesgue measure via convolutions. **89m:28010**

Martin, Gaven J. *see* **Levenberg, N.; et al., 89m:28010**

Pietruska-Pałuba, Katarzyna (*with* Smoleński, Włodzimierz) On values taken by a product measure on affine sets. (Russian summary) **89g:60008**

Sherwood, H. *see* **Kamiński, A.; et al., 89f:28005**

Shields, Allen *see* **Levenberg, N.; et al., 89m:28010**

Shortt, Rae Michael (*with* Dougherty, D. J.; Ball, R. N.) Decomposition theorems for measures. **89a:28004**

— Measures on groups with given projections. **89e:28016**

Smoleński, Włodzimierz *see* **Pietruska-Pałuba, Katarzyna, 89g:60008**

Štěpán, Josef *see* **Beneš, Viktor, 89b:60013**

Stochel, Jan The Bochner-Kolmogorov extension theorem for semispectral measures. **89b:47053**

Taylor, M. D. *see* **Kamiński, A.; et al., 89f:28005**

Zdravkovska, Smilka *see* **Levenberg, N.; et al., 89m:28010**

28A50 Integration and disintegration of measures

Balibrea Gallego, Francisco Kernels of measures and kernels of summability. (Spanish. English summary) **89m:28009**

Barndorff-Nielsen, O. E. (*with* Eriksen, Poul Svante) ★ Decomposition, factorization and invariance of measures, with a view to applications in statistics. **89b:28003**

Eriksen, Poul Svante *see* **Barndorff-Nielsen, O. E., 89b:28003**

Kahane, J.-P. Désintégration des mesures selon la dimension. (English summary) [Disintegration of measures according to dimension] **89f:28015**

Levenberg, N. (*with* Martin, Gaven J.; Shields, Allen; Zdravkovska, Smilka) Factorizations of Lebesgue measure via convolutions. **89m:28010**

Martin, Gaven J. *see* **Levenberg, N.; et al., 89m:28010**

Novak, Erich A decomposition of measures in Euclidean space yielding error bounds for quadrature formulas. **89g:28009**

Shields, Allen *see* **Levenberg, N.; et al., 89m:28010**

Zdravkovska, Smilka *see* **Levenberg, N.; et al., 89m:28010**

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Hazareesingh, L. (*with* Kannan, D.) Stochastic product integration and stochastic equations. **89a:60136**

Janssen, K. Representation of excessive measures. **89f:60084**

Kahane, J.-P. Disintegration of measures according to the dimension and its relation with random coverings and multiplicative chaos. **89g:28017**

Kannan, D. *see* **Hazareesingh, L., 89a:60136**

Lyons, Russell Errata to: "Wiener's theorem, the Radon-Nikodým theorem, and $M_0(\mathbf{T})$" [Ark. Mat. **24** (1986), no. 2, 277–282; MR 88e:42019]. **89d:42019**

28A51 Lifting theory [see also 46G15]

Burke, Maxim R. Weakly dense subsets of the measure algebra. **89m:28011**

Grekas, S. On the strong lifting property for products. **89g:28010**

Items with secondary classifications in 28A51

Talagrand, Michel On liftings and the regularization of stochastic processes. **89g:60017**

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Basile, Achille Controls of families of finitely additive functions. **89e:28008**

Poroshkin, A. G. (*with* Samorodnitskiĭ, A. A.) Functions on lattices that are continuous with respect to a monotone sequence. (Russian) **89a:28006**

— Some characteristic properties of submeasures. (Russian) **89g:28011**

Samorodnitskiĭ, A. A. *see* **Poroshkin, A. G., 89a:28006**

Items with secondary classifications in 28A60

Ahmad, Munir *see* **Ahsan, J.; et al., 89b:60012**

Ahmad, R. *see* **Ahsan, J.; et al., 89b:60012**

Ahsan, J. (*with* Ahmad, Munir; Ahmad, R.) Probability algebras: a review with some statistical application. I. **89b:60012**

Constantinescu, Corneliu Some properties of spaces of measures (summary). **89c:46041**

Fëdorov, A. L. *see* **Veksler, A. S., 89c:28028**

Mussmann, Dieter Generating systems for L-spaces with applications to sufficiency. **89c:62009**

Veksler, A. S. (*with* Fëdorov, A. L.) On the homomorphisms of locally compact groups in the exterior group of a measurable equivalence relation. (Russian) **89c:28028**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49F20]

Amritkar, R. E. (*with* Gangal, A. D.; Gupte, Neelima) Dimensional characterization of sets with partial scaling symmetry. **89h:28007**

Artuso, Roberto (*with* Cvitanović, Predrag; Kenny, Brian G.) Phase transitions on strange irrational sets. **89k:28003**

Bardaro, Carlo (*with* Vinti, Gianluca) The perimeter and generalized variation with respect to a measure in $\mathbf{R}^2$. (Italian) **89d:28006**

Cutler, C. D. A note on equivalent interval covering systems for Hausdorff dimension on $\mathbf{R}$. **89h:28008**

Cvitanović, Predrag *see* **Artuso, Roberto; et al., 89k:28003**

Dhar, Deepak Spectral dimension of Sierpiński gasket type fractals. **89f:28016**

Falconer, K. J. (*with* Marsh, D. T.) The dimension of affine-invariant fractals. **89h:28009**

— The Hausdorff dimension of self-affine fractals. **89h:28010**

Foran, James Dimension of the graph of Riemann integrable functions. **89h:28011**

Gangal, A. D. *see* **Amritkar, R. E.; et al., 89h:28007**

Gupte, Neelima *see* **Amritkar, R. E.; et al., 89h:28007**

Haase, H. Packing measures on Euclidean spaces. **89e:28009**

— Die metrische Dimension analytischer Mengen. [The metric dimension of analytic sets] **89h:28012**

Keesling, James Hausdorff dimension. **89f:28017**

Kenny, Brian G. *see* **Artuso, Roberto; et al., 89k:28003**

Laczkovich, M. Closed sets without measurable matching. **89f:28018**

Lalley, S. The packing and covering functions of some self-similar fractals. **89h:28013**

Mandelbrot, B. B. An introduction to multifractal distribution functions. (*see* **89j:00034**)

Marsh, D. T. *see* **Falconer, K. J., 89h:28009**

Mattila, Pertti Distribution of sets and measures along planes. **89f:28019**

Mauldin, R. Daniel (*with* Williams, Stanley Carl) Hausdorff dimension in graph directed constructions. **89i:28003**

Meinershagen, Sandra The symmetric derivation basis measure and the packing measure. **89f:28020**

Milošević, S. (*with* Stassinopoulos, Dimitris; Stanley, H. E.) Asymptotic form of the spectral dimension at the fractal to lattice crossover. **89m:28012**

Naudts, J. Dimension of discrete fractal spaces. **89g:28012**

Norton, Alec Functions not constant on fractal quasi-arcs of critical points. **89m:28013**

Rogers, C. A. Dimension prints. **89h:28014**

Shubov, V. I. Subsets of a Hilbert space that have finite Hausdorff dimension. (Russian. English summary) **89c:28010**

Stanley, H. E. *see* **Milošević, S.; et al., 89m:28012**

Stassinopoulos, Dimitris *see* **Milošević, S.; et al., 89m:28012**

Strichartz, Robert S. Besicovitch meets Wiener-Fourier expansions and fractal measures. **89h:28015**

Vinti, Gianluca *see* **Bardaro, Carlo, 89d:28006**

Williams, Stanley Carl *see* **Mauldin, R. Daniel, 89i:28003**

Zähle, U. Self-similar random measures. I. Notion, carrying Hausdorff dimension, and hyperbolic distribution. **89m:28014**

Zaĭtsev, G. Yu. ★ Меры Хаусдорфа и их приложения к геометрии. (Russian) [Hausdorff measures and their applications to geometry] **89m:28015**

Zambitskiĭ, M. K. (*with* Zykov, A. A.) Rectification of sets in Euclidean spaces. (Russian) **89f:28021**

Zykov, A. A. *see* **Zambitskiĭ, M. K., 89f:28021**

Items with secondary classifications in 28A75

Allain, C. (*with* Cloitre, M.) Spatial spectrum of a general family of self-similar arrays. **89k:82086**

Arneodo, A. (*with* Grasseau, G.; Holschneider, Matthias) Wavelet transform of multifractals. **89i:58075**

(Baĭborodov, S. P.) *see* **Federer, Herbert, 89f:49034**

Bandt, Christoph Fractals in dynamical systems. **89e:58108**

Belyakov, A. V. Finiteness of all variations of a neighborhood of a bounded set in $\mathbf{R}^n$. (Russian) **89d:53118**

Borel, J.-P. Suites et mesures ayant des propriétés d'auto-similarité. [Sequences and measures with self-similarity properties] **89i:11089**

Bothe, Hans Günter Three remarks concerning the Hausdorff dimension of expanding attractors. **89d:58099**

Bourgain, J. Construction of sets of positive measure not containing an affine image of a given infinite structures. **89g:28004**

Brothers, John E. (*with* Ziemer, William P.) Minimal rearrangements of Sobolev functions. **89g:26013**
Brown, Gavin Some inequalities that arise in measure theory. **89d:26019**
Buldygin, V. V. (*with* Kharazishvili, A. B.) ★ Неравенство Брунна-Минковского и его приложения. (Russian) [The Brunn-Minkowski inequality and its applications] **89b:52019**
Canale, Anna Reverse integral inequalities with respect to different measures. (Italian summary) **89g:26018**
Churchhouse, R. F. Fractals. **89g:58103**
Cloitre, M. *see* **Allain, C., 89k:82086**
Collet, Pierre (*with* Lebowitz, Joel L.; Porzio, Anna) The dimension spectrum of some dynamical systems. **89d:58061**
Cooper, Daryl (*with* Pignataro, Thea) On the shape of Cantor sets. **89k:58160**
Drmota, Michael (*with* Tichy, Robert F.) C-uniform distribution on compact metric spaces. **89a:11078**
Eckhardt, Bruno Fractal properties of scattering singularities. **89i:82115**
Falconer, K. J. A subadditive thermodynamic formalism for mixing repellers. **89k:58154**
Feder, Jens ★ Fractals. **89i:76001**
Federer, Herbert ★ Геометрическая теория меры. (Russian) [Geometric measure theory] **89f:49034**
Ferrarotti, Massimo Some results about integration on regular stratified sets. **89i:58008**
(Fomenko, A. T.) *see* **Federer, Herbert, 89f:49034**
Grasseau, G. *see* **Arneodo, A.; et al., 89i:58075**
Haase, H. Metric outer measures of type I in the general setting. **89f:28002**
Hardt, Robert M. (*with* Simon, Leon M.) ★ Seminar on geometric measure theory. **89c:49031**
Higuchi, T. Approach to an irregular time series on the basis of the fractal theory. **89f:58090**
Holschneider, Matthias *see* **Arneodo, A.; et al., 89i:58075**
Hurd, Alan J. Resource letter FR-1: fractals. **89j:00037**
(Ivanov, L. D.) *see* **Federer, Herbert, 89f:49034**
Jeżewski, W. Measure of fat fractals in one-dimensional maps. **89h:58119**
Kahane, J.-P. Désintégration des mesures selon la dimension. (English summary) [Disintegration of measures according to dimension] **89f:28015**
Katětov, Miroslav On dimensions of semimetrized measure spaces. **89h:94005**
Kharazishvili, A. B. *see* **Buldygin, V. V., 89b:52019**
Kinney, John R. (*with* Pitcher, Tom S.) Julia sets for certain rational functions. **89b:58108**
Kohmoto, Mahito Entropy function for multifractals. **89g:82009**
Lakhtakia, Akhlesh (*with* Varadan, Vijay K.; Messier, Russell; Varadan, Vasundara V.) Generalisations and randomisation of the plane Koch curve. **89b:51028**
— (*with* Messier, Russell; Varadan, Vijay K.; Varadan, Vasundara V.) Fractal sequences derived from the self-similar extensions of the Sierpiński gasket. **89e:11005**
Lebowitz, Joel L. *see* **Collet, Pierre; et al., 89d:58061**
Lee, Cheng Ming Some Hausdorff variants of absolute continuity, Banach's condition (S) and Lusin's condition (N). **89e:26022**
Makarov, N. G. Conformal mapping and Hausdorff measures. **89g:30044**
(Mandelbrot, B. B.) *see* **Feder, Jens, 89i:76001**
Mattila, Pertti ★ Lecture notes on geometric measure theory. **89e:49037**
Meinershagen, Sandra Derivation bases and the Hausdorff measure. **89c:28006**
Messier, Russell *see* **Lakhtakia, Akhlesh; et al., 89b:51028** *and* **89e:11005**
Meyer, Mathieu (*with* Pajor, A.) Sections of the unit ball of L_p^n. **89h:52010**
Mishima, Nobuhiko *see* **Yamaguchi, Yoshihiro; et al., 89d:58065**
Nittmann, J. (*with* Stanley, H. E.) Nondeterministic approach to anisotropic growth patterns with continuously tunable morphology: the fractal properties of some real snowflakes. **89c:82003**
Pajor, A. *see* **Meyer, Mathieu, 89h:52010**
Pfeffer, Washek F. The multidimensional fundamental theorem of calculus. **89b:26013**
Pignataro, Thea *see* **Cooper, Daryl, 89k:58160**
Pitcher, Tom S. *see* **Kinney, John R., 89b:58108**
Porzio, Anna *see* **Collet, Pierre; et al., 89d:58061**
Rezakhanlou, Fraydoun The packing measure of the graphs and level sets of certain continuous functions. **89m:28006**
Simon, Leon M. *see* **Hardt, Robert M., 89c:49031**
Stanley, H. E. *see* **Nittmann, J., 89c:82003**
Svozil, Karl Quantum field theory on fractal spacetime: a new regularisation method. **89b:81151**
Tanikawa, Kiyotaka *see* **Yamaguchi, Yoshihiro; et al., 89d:58065**
Thümmel, Ottfried Oscillations in the determination of Renyi dimension. (German summary) **89g:58141**
Tichy, Robert F. *see* **Drmota, Michael, 89a:11078**
(Trofimov, V. V.) *see* **Federer, Herbert, 89f:49034**
Vaienti, S. Generalised spectra for the dimensions of strange sets. **89k:58165**
Varadan, Vasundara V. *see* **Lakhtakia, Akhlesh; et al., 89b:51028** *and* **89e:11005**
Varadan, Vijay K. *see* **Lakhtakia, Akhlesh; et al., 89b:51028** *and* **89e:11005**
(Vitushkin, A. G.) *see* **Federer, Herbert, 89f:49034**
Weiss, V. (*with* Zähle, M.) Geometric measures for random curved mosaics of $\mathbf{R}^d$. **89j:60026**
Xenikakis, Polychronis J. Some results on similarities in $\mathbf{R}^n$. **89e:28002**
Yamaguchi, Yoshihiro (*with* Tanikawa, Kiyotaka; Mishima, Nobuhiko) Fractal basin boundary in dynamical systems and the Weierstrass-Takagi functions. **89d:58065**
Zähle, M. *see* **Weiss, V., 89j:60026**
Zähle, U. The fractal character of localizable measure-valued processes. I. Random measures on product spaces. **89m:60118**
Ziemer, William P. *see* **Brothers, John E., 89g:26013**

28A99 None of the above, but in this section

Stefani, Oscar Continuity of the approximation measures of sets of constant width. (Italian. English summary) **89h:28016**

Items with secondary classifications in 28A99

Alpern, Steve Area-preserving homeomorphisms of the open disk without fixed points. **89e:55003**
Bourgain, J. A nonlinear version of Roth's theorem for sets of positive density in the real line. **89i:11017**
Capri, O. N. (*with* Fava, N. A.) A generalization of Yano's extrapolation theorem. **89i:42028**
Chen, Shao Zhong (*with* Gu, Fu Wen) Some measurable selection theorems for topological spaces. (Chinese. English summary) **89g:54041**
Fava, N. A. *see* **Capri, O. N., 89i:42028**
Freiling, C. (*with* Payne, T. H.) Some properties of large filters. **89m:03036**
Galperin, E. A. (*with* Zheng, Quan) Nonlinear observation via global optimization methods: measure theory approach. **89k:93023**
Gu, Fu Wen *see* **Chen, Shao Zhong, 89g:54041**
Jovanović, Aleksandar Reduced products modulo measures. **89j:03027**
Kemperman, J. H. B. Geometry of the moment problem. **89h:44004**
Nabiałek, Ireneusz Functional configuration and degrees of engagement. (Russian summary) **89e:90234**
Payne, T. H. *see* **Freiling, C., 89m:03036**
Zheng, Quan *see* **Galperin, E. A., 89k:93023**

28Bxx Measures and integrals with values in abstract spaces

28B05 Vector-valued measures and integrals [see also 46G10]

Anantharaman, R. (*with* Garg, K. M.) Errata: "Some topological properties of vector measures and their integral maps" [J. Austral. Math. Soc. Ser. A 23 (1977), no. 4, 453–466; MR 58 #6144]. **89f:28022**
Bator, Elizabeth M. Pettis decomposition for universally scalarly measurable functions. **89m:28016**
Castaing, C. Validité du théorème de Reshetnyak dans les espaces hilbertiens. [Validity of Reshetnyak's theorem in Hilbert spaces] **89m:28017**
Dobrakov, Ivan On extension of vector polymeasures. **89c:28011**
— On integration in Banach spaces. VII. **89f:28023**
Fernández y Fernández-Arroyo, Fidel José A necessary condition for the existence of the product of measures valued in locally convex spaces. (Spanish) **89f:28024**
Fu, Shu Sheng A dominated convergence theorem for the GP-integral. **89b:28004**
Garg, K. M. *see* **Anantharaman, R., 89f:28022**
González, Gilberto (*with* Panchapagesan, T. V.) Carathéodory extension for measures with values in positive operators. (Spanish) **89m:28018**
Khurana, Surjit Singh A vector form of Alexandrov's theorem. **89f:28025**
Kluvánek, Igor Additive set functions of bounded Φ-variation. **89f:28026**
Moreau, J.-J. Bounded variation in time. **89k:28004**
Musiał, Kazimierz Vitali and Lebesgue convergence theorems for Pettis integral in locally convex spaces. **89e:28010**
Ohba, Sachio Ranked-vector-space valued measures. (Japanese summary) (Not in MR)
Panchapagesan, T. V. *see* **González, Gilberto, 89m:28018**
Rodríguez Salazar, Soledad A mean-value theorem for a bilinear integral in locally convex spaces. (Spanish. English summary) **89k:28005**
Shcherbin, V. M. A certain integration of mappings of semi-ordered rings of Bochner type. (Russian) **89g:28013**
Silva, Mauro ★ Tópicos en medidas vectoriales. (Spanish) [Some topics in the theory of vector measures] **89c:28012**
Trendafilov, N. Uniformly distributed sequences and vector-valued integration. **89h:28017**

Items with secondary classifications in 28B05

Balbás, A. (*with* Jiménez Guerra, Pedro) A Radon-Nikodým theorem for a bilinear integral in locally convex spaces. **89f:46096**
Bator, Elizabeth M. A decomposition of bounded scalarly measurable functions taking their ranges in dual Banach spaces. **89i:46050**
Candeloro, Domenico (*with* Martellotti, Anna) An overview of some recent results concerning finitely additive measures. (Italian) **89e:28003**
Dobrakov, Ivan On integration in Banach spaces. VIII. Polymeasures. **89a:46097**
— On integration in Banach spaces. IX, X. Integration with respect to polymeasures. **89m:46082**
Duchoň, Miloslav Vector measures and nuclearity. (Russian summary) **89j:46045**
Freniche, Francisco J. Some remarks on the average range of a vector measure. **89m:46083**
Gali, I. M. (*with* Okb El-Bab, A. S.; Saleh, M.) On positive-definite invariant matrix kernels. **89c:47025**
García Mazarío, Francisco Compactness in locally convex spaces of vector measures. (Spanish. English summary) **89m:46049**
Giannakoulias, E. M. Absolute continuity and decomposability of vector measures taking values in a locally convex space with basis. **89a:46098**
— Some properties of vector measures taking values in a topological vector space. **89e:46047**
Hess, Christian Théorème de la convergence dominée pour l'intégrale et l'espérance conditionnelle des ensembles aléatoires non bornés et des intégrandes. (English summary) [The dominated convergence theorem for the integral and the conditional expectation of unbounded random sets and of integrands] **89a:60032**
Jefferies, Brian Egorov measurability and generator cores. **89b:47059**
Jiménez Guerra, Pedro *see* **Balbás, A., 89f:46096**
Kadets, V. M. Riemann integral sums and the geometry of a Banach space. (Russian. English summary) **89d:46018**
Khurana, Surjit Singh Extensions of certain compact operators on vector-valued continuous functions. **89d:47063**
Lešnjak, Gorazd Complex convexity and finitely additive vector measures. **89g:46034**
Liu, Pei De Set function processes and nuclearity in Fréchet spaces. (Chinese. English summary) **89k:46003**

Loeb, Peter A. A lattice formulation of real and vector valued integrals. (*see* **89m:03060**)
Magnaradze, L. G. Stieltjes singular integrals in a Banach space and some of their applications. (Russian. English and Georgian summaries) **89e:26020**
Makagon, A. (*with* Salehi, H.) Spectral dilation of operator-valued measures and its application to infinite-dimensional harmonizable processes. **89a:60019**
Martellotti, Anna Countably additive restrictions of vector-valued quasimeasures with respect to range preservation. (Italian summary) **89k:28002**
— *see also* **Candeloro, Domenico, 89e:28003**
Obradović, P. Integral representation of a linear operator. (Serbo-Croatian. English summary) **89c:47045**
Ohba, Sachio Integration with respect to vector measures. (Japanese summary) (Not in MR)
Okada, Susumu Integration of conuclear space valued functions. **89h:46069**
Okb El-Bab, A. S. *see* **Gali, I. M.; et al., 89c:47025**
Rodríguez-Salinas, Baltasar Extremal integral representation. **89c:46013**
Saleh, M. *see* **Gali, I. M.; et al., 89c:47025**
Salehi, H. *see* **Makagon, A., 89a:60019**
Siggini, K. Koffi Compacité étroite des multi-applications tendues. [Strict compactness of extended multivalued mappings] **89m:28020**
Skrichevskiĭ, V. V. Differentiation of an operator-valued measure in a Banach rigging. **89k:47027**
Szabó, Gy. (*with* Száz, Árpád) The net integral and a convergence theorem. **89h:26010**
Száz, Árpád *see* **Szabó, Gy., 89h:26010**
Wiid, F. G. J. Weak compactness in spaces of vector valued measures. **89i:46029**

28B10 Group- or semigroup-valued measures and integrals

Lipecki, Z. On unique extensions of positive additive set functions. II. **89d:28007**
Ohba, Sachio Topological-group-valued measures. II. (Japanese summary) (Not in MR)
Papanastassiou, N. (*with* Pavlakos, P. K.) Regularity, nearly regularity and extensions of Borel measures valued in partially ordered semigroups. **89e:28011**
Pavlakos, P. K. *see* **Papanastassiou, N., 89e:28011**
Smajdor, Wilhelmina Superadditive set-valued functions and Banach-Steinhaus theorem. (Serbo-Croatian summary) **89f:28027**

Items with secondary classifications in 28B10

Candeloro, Domenico (*with* Martellotti, Anna) An overview of some recent results concerning finitely additive measures. (Italian) **89e:28003**
Leontiadis, Th. Fortsetzung eines verallgemeinerten Daniell-Integrals auf einem o-topologischen σ-Verband mit Werten in einer Verbandsgruppe. [Continuation of a generalized Daniell integral on an o-topological σ-lattice with values in a lattice group] **89h:28018**
Martellotti, Anna *see* **Candeloro, Domenico, 89e:28003**

28B15 Measures and integrals with values in general ordered systems

Delanghe, R. A note on the product of positive operator valued measures. **89g:28014**
Plebanek, Grzegorz On extensions of measures which are maximal with respect to a chain. **89f:28028**

Items with secondary classifications in 28B15

Akilov, G. P. (*with* Kolesnikov, E. V.; Kusraev, A. G.) On the order-continuous extension of a positive operator. **89m:47033**
González, Gilberto (*with* Panchapagesan, T. V.) Carathéodory extension for measures with values in positive operators. (Spanish) **89m:28018**
Kolesnikov, E. V. *see* **Akilov, G. P.; et al., 89m:47033**
Kusraev, A. G. *see* **Akilov, G. P.; et al., 89m:47033**
Leontiadis, Th. Fortsetzung eines verallgemeinerten Daniell-Integrals auf einem o-topologischen σ-Verband mit Werten in einer Verbandsgruppe. [Continuation of a generalized Daniell integral on an o-topological σ-lattice with values in a lattice group] **89h:28018**
Neumaier, A. (*with* Seidel, J. J.) Discrete measures for spherical designs, eutactic stars and lattices. **89i:05072**
Panchapagesan, T. V. *see* **González, Gilberto, 89m:28018**
Sapounakis, A. (*with* Sion, M.) Construction of regular measures. **89f:28006**
Schmidt, Klaus D. On the modulus of weakly compact operators and strongly additive vector measures. **89e:47056**
Seidel, J. J. *see* **Neumaier, A., 89i:05072**
Sion, M. *see* **Sapounakis, A., 89f:28006**
Zelichenok, A. B. Measures on projectors taking values in cones that are extended in the sense of Haagerup. (Russian) **89f:46126**

28B20 Set-valued measures; integration of set-valued functions; measurable selections [see also 54C60, 54C65]

Artstein, Zvi (*with* Wets, Roger J.-B.) Approximating the integral of a multifunction. **89d:28008**
Bottaro Aruffo, Ada $(\mathscr{L} \times \mathscr{B}(\rho))$-measurability and convergence in measure. (Italian. English summary) **89c:28013**
Di Bari, Cristina On continuous selections. (Italian. English summary) **89m:28019**
Evstigneev, I. V. Measurable images of compact spaces and selectors of analytic sets. **89g:28015**
Fremlin, David H. Measure-additive coverings and measurable selectors. **89e:28012**
Li, Teng *see* **Zhang, Wen Xiu, 89e:28013**
Nikol'skiĭ, M. S. A piecewise constant integral for multivalued mappings. (Russian) **89d:28009**
Papageorgiou, Nikolaos S. Contributions to the theory of set valued functions and set valued measures. **89a:28007**
Siggini, K. Koffi Compacité étroite des multi-applications tendues. [Strict compactness of extended multivalued mappings] **89m:28020**
Tsalyuk, V. Z. The superpositional measurability of multivalued functions. **89c:28014**
Wets, Roger J.-B. *see* **Artstein, Zvi, 89d:28008**
Zhang, Wen Xiu (*with* Li, Teng) A representation theorem for set-valued measures. (Chinese) **89e:28013**

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Artstein, Zvi (*with* Prikry, Karel) Carathéodory selections and the Scorza Dragoni property **89a:49014**
Baĭdosov, V. A. Mappings that are conjugate to multivalued mappings and their application to generalized dynamic games. **89g:90268**
Bocşan, Gheorghe ★ Random sets and related topics. **89k:60085**
Borisovich, Yu. G. (*with* Gel'man, B. D.; Myshkis, A. D.; Obukhovskiĭ, V. V.) ★ Введение в теорию многозначных отображений. (Russian) [Introduction to the theory of multivalued mappings] **89f:49014**
Castaing, C. Compacité dans l'espace des mesures de probabilité de transition. [Compactness in the space of transition probability measures] **89a:46061**
Choukairi, A. M-convergence, et regularite des martingales multivoques. Épi-martingales. [M-convergence, and regularity of multivalued martingales. Epi-martingales] **89m:60110**
De Blasi, F. S. (*with* Myjak, J.) On the random Dugundji extension theorem. **89b:54024**
Gel'man, B. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Grabovoĭ, I. P. (*with* Ostapenko, V. V.) Integration of linear multivalued mappings. (Russian) **89m:90177**
Hess, Christian Théorème de la convergence dominée pour l'intégrale et l'espérance conditionnelle des ensembles aléatoires non bornés et des intégrandes. (English summary) [The dominated convergence theorem for the integral and the conditional expectation of unbounded random sets and of integrands] **89a:60032**
Klimov, V. S. (*with* Onufrieva, E. Yu.) Some properties of multivalued mappings. (Russian) **89c:34017**
Laczkovich, M. Closed sets without measurable matching. **89f:28018**
Lai, Han Ch'ing (*with* Lin, Lai Chü) Moreau-Rockafellar type theorem for convex set functions. **89g:90239**
Larhrissi, Naima Quelques résultats d'existence de sélection des multifunctions séparément mesurables et séparément semi-continues inférieurement. [Some results on the existence of a selection for multifunctions that are separately measurable and separately lower semicontinuous] **89a:49015**
Lin, Lai Chü *see* **Lai, Han Ch'ing, 89g:90239**
Myjak, J. (*with* Zygadlewicz, W.) Extension of random contractions. **89j:54017**
— *see also* **De Blasi, F. S., 89b:54024**
Myshkis, A. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Obukhovskiĭ, V. V. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Odinets, V. P. (*with* Ślęzak, Włodzimierz A.) ★ Wybrane rozdziały analizy wypukłej. (Polish) [Selected topics in convex analysis] **89g:90172**
Onufrieva, E. Yu. *see* **Klimov, V. S., 89c:34017**
Ostapenko, V. V. *see* **Grabovoĭ, I. P., 89m:90177**
Papageorgiou, Nikolaos S. On Cesari's property (Q). **89a:54021**
— On measurable multifunctions with applications to random multivalued equations. **89a:54019**
Prikry, Karel *see* **Artstein, Zvi, 89a:49014**
Przesławski, Krzysztof Note on Lipschitz continuous, valuated selectors for the family of convex and compact subsets of Banach space. **89h:26023**
Rybiński, Longin Multivalued contraction mappings with parameters and random fixed point theorems. **89e:47079**
Ślęzak, Włodzimierz A. *see* **Odinets, V. P., 89g:90172**
Smajdor, Wilhelmina Superadditive set-valued functions and Banach-Steinhaus theorem. (Serbo-Croatian summary) **89f:28027**
Valadier, Michel Approximation lipschitzienne par l'intérieur d'une multifonction s.c.i. [Lipschitz inside approximation of a lower semicontinuous multifunction] **89j:49006**
Yannelis, Nicholas C. Fatou's lemma in infinite-dimensional spaces. **89g:28006**
Zygadlewicz, W. *see* **Myjak, J., 89j:54017**

28B99 None of the above, but in this section

Nakanishi, Shizu Integration of ranked vector space valued functions. **89g:28016**

28Cxx Measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing measures

Díaz Carrillo, M. (*with* Olvera Peralta, M.) Supersummable functions and induced measures. (Spanish. English summary) **89k:28006**
Leontiadis, Th. Fortsetzung eines verallgemeinerten Daniell-Integrals auf einem o-topologischen σ-Verband mit Werten in einer Verbandsgruppe. [Continuation of a generalized Daniell integral on an o-topological σ-lattice with values in a lattice group] **89h:28018**
Olvera Peralta, M. *see* **Díaz Carrillo, M., 89k:28006**
Wilhelm, M. Integral extension procedures in weakly σ-complete lattice-ordered groups. II. **89k:28007**

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Adamski, Wolfgang Characterization of complete spaces by measures that integrate every function of a given vector lattice. **89a:46055**
Carriero, M. (*with* Leaci, A.; Pascali, E.) On the lower semicontinuity of a class of integral functionals. **89f:49016**
Chersi, Franco Weak convergence of measures and dynamical systems on noncompact spaces. (Italian summary) **89g:28023**

Fernández Novoa, J. Espaces non vérifiant le second axiome de dénombrabilité. (English summary) [Spaces not satisfying the second axiom of countability] **89b:54029**

Jefferies, Brian Semicompact functionals. **89c:46010**

Leaci, A. *see* **Carriero, M.; et al., 89f:49016**

Lebedev, A. A. A mathematical model for description of random and indefinite factors from unified positions. **89m:60008**

Pascali, E. *see* **Carriero, M.; et al., 89f:49016**

Smoleński, Włodzimierz On the continuity of measurable linear functionals. (Russian summary) **89m:46084**

Sun, Yeneng A nonstandard proof of the Riesz representation theorem for weakly compact operators on $C(\Omega)$. **89i:47059**

Valadier, Michel Functions and operators on the space of bounded measures. **89f:46057**

28C10 Measures on topological groups, Haar measures, invariant measures [see also 43A05]

Chakrabarti, Sadasiv (*with* Lahiri, B. K.) Local measurability in topological groups. (Serbo-Croatian summary) **89e:28014**

Kirtadze, A. P. (*with* Pantsulaya, G. R.) The property of essential uniqueness of invariant measures in vector spaces. (Russian. English and Georgian summaries) **89f:28029**

Lahiri, B. K. *see* **Chakrabarti, Sadasiv, 89e:28014**

de Lucia, Paolo (*with* Weber, Hans) On group-valued control contents. **89m:28021**

Pantsulaya, G. R. *see* **Kirtadze, A. P., 89f:28029**

Pelc, Andrzej Invariant measures on abelian metric groups. **89e:28015**

Ross, David Andrew Measures invariant under local homeomorphisms. **89c:28015**

Shortt, Rae Michael Measures on groups with given projections. **89e:28016**

Smirnov, E. I. A property of countably semiadditive functionals. (Russian) **89f:28030**

Soundararajan, T. On inner and outer regular Haar measure in locally compact groups. **89f:28031**

Weber, Hans *see* **de Lucia, Paolo, 89m:28021**

Items with secondary classifications in 28C10

Adams, Scot An equivalence relation that is not freely generated. **89d:28014**

Barndorff-Nielsen, O. E. (*with* Eriksen, Poul Svante) ★ Decomposition, factorization and invariance of measures, with a view to applications in statistics. **89b:28003**

Byczkowska, H. (*with* Byczkowski, T.) Zero-one law for subgroups of paths of group-valued stochastic processes. **89g:60022**

Byczkowski, T. *see* **Byczkowska, H., 89g:60022**

Christensen, Jens Peter Reus (*with* Fischer, Pal) Small sets and a class of general functional equations. **89f:43002**

— (*with* Fischer, Pal) Joint continuity of measurable biadditive mappings. **89d:43006**

Eriksen, Poul Svante *see* **Barndorff-Nielsen, O. E., 89b:28003**

Fischer, Pal *see* **Christensen, Jens Peter Reus, 89d:43006** *and* **89f:43002**

Gali, I. M. (*with* Okb El-Bab, A. S.; Saleh, M.) On positive-definite invariant matrix kernels. **89c:47025**

Hu, Yao Zhong (*with* Meyer, P.-A.) Chaos de Wiener et intégrale de Feynman. [Wiener chaos and the Feynman integral] **89m:60193**

Kalina, Martin The central limit theorem on compact commutative groups. **89m:60025**

Kleppner, Adam Measurable homomorphisms of locally compact groups. **89k:22005**

Meyer, P.-A. *see* **Hu, Yao Zhong, 89m:60193**

Mishkin, V. V. Stabilizers of σ-fields of sets in separable metric spaces and complete groups. **89g:54086**

Nizharadze, G. V. On the problems of the existence of absolutely nonmeasurable sets and of the realizability of the Vitali construction. (Russian. English and Georgian summaries) **89c:28004**

Okazaki, Yoshiaki (*with* Takahashi, Yasuji) The ergodicity of the convolution $\mu * \nu$ on a vector space. **89a:46101**

Okb El-Bab, A. S. *see* **Gali, I. M.; et al., 89c:47025**

Saleh, M. *see* **Gali, I. M.; et al., 89c:47025**

Siebert, E. Decomposition of convolution semigroups on Polish groups and zero-one laws. **89b:60173**

Székely, Gábor J. Haar measure on semigroups. **89a:43002**

Takahashi, Yasuji *see* **Okazaki, Yoshiaki, 89a:46101**

Zakrzewski, Piotr Extensions of invariant ideals. **89f:03040**

28C15 Measures on topological spaces (regularity of measures, etc.)

Balbás de la Corte, A. The relation between strongly regular Radon measures and σ-finite measures. (Spanish. English summary) **89f:28032**

Beer, Gerald (*with* Villar, Luzviminda) On the approximation of starshaped sets in Hausdorff distance. **89e:28017**

— (*with* Villar, Luzviminda) Borel measures and Hausdorff distance. **89e:28018**

Câmpenan, Cezar Semiautomata, outer measures and Carathéodory property. **89m:28022**

Filter, Wolfgang (*with* Weber, Karl) Normal measures on Stonian spaces with σ-compact and paracompact support. **89h:28019**

Gardner, Richard J. Corson compacts and Radon spaces. **89h:28020**

Grassi, P. On the decomposition of a lattice-regular measure with respect to a mapping. **89f:28033**

Gryllakis, Constantinos Products of completion regular measures. **89d:28010**

Haase, H. Open-invariant measures and the covering number of sets. **89c:28016**

Kahane, J.-P. Disintegration of measures according to the dimension and its relation with random coverings and multiplicative chaos. **89g:28017**

Lin, Yi Xing Relations between the zero-one law of the convergence of quasicharacter sequences and ergodic measures. (Chinese) **89f:28034**

Okuyama, Akihiro On a topology of the set of real measure functions. **89e:28019**

Pal, Mukul (*with* Panda, Santimoy) On a theorem of E. Boardman. **89e:28020**

Panda, Santimoy *see* **Pal, Mukul, 89e:28020**

Pap, Endre Erratum to: "A generalization of a theorem of Dieudonné for k-triangular set functions" [Acta Sci. Math. (Szeged) **50** (1986), no. 1-2, 159–167; MR 87j:28017]. **89c:28017**

Polexe, Raluca Mesures sur des espaces bitopologiques. (Romanian summary) [Measures on bitopological spaces] **89a:28008**

Villar, Luzviminda *see* **Beer, Gerald, 89e:28017** *and* **89e:28018**

Weber, Karl *see* **Filter, Wolfgang, 89h:28019**

Items with secondary classifications in 28C15

Adamski, Wolfgang Characterization of complete spaces by measures that integrate every function of a given vector lattice. **89a:46055**

Anastassiou, George A. A comparison between the Lipschitz and Prohorov metrics. **89e:60008**

Chaurasia, A. R. Convergence of measure in separable Banach space. (Hindi. English summary) **89a:28005**

Ding, Feng The measure on S-closed spaces. **89e:54040**

Filter, Wolfgang On measure representations of Riesz spaces. **89m:46008**

Kellerer, Hans G. Measure theoretic versions of linear programming. **89f:90193**

Khurana, Surjit Singh A vector form of Alexandrov's theorem. **89f:28025**

Ledrappier, François Dimension of invariant measures. **89b:58120**

Mauldin, R. Daniel (*with* Ulam, Stan) Mathematical problems and games. **89g:04005**

Reshetnyak, Yu. G. The N condition for spatial mappings of the class $W^1_{n,\mathrm{loc}}$. (Russian) **89b:46049**

Rodríguez-Salinas, Baltasar Extremal integral representation. **89c:46013**

Ulam, Stan *see* **Mauldin, R. Daniel, 89g:04005**

Valadier, Michel Une injection canonique qu'on peut croire continue et qui ne l'est pas. [A canonical injection that seems to be continuous but is not] **89k:46044**

Veksler, A. I. Topological properties of the set of almost infinity points of an extended measure. (Russian) **89g:54112**

Villani, Alfonso On the metrizability of $L^p_{\mathrm{loc}}(\Omega, \mu)$. (Italian summary) **89c:46048**

Zygmunt, Wojciech Product measurability and Scorza-Dragoni's type property. **89m:28008**

28C20 Measures and integrals in function spaces (Wiener measure, Gauss measure, etc.) [see also 58D20, 60B11]

Ahn, Jae Moon *see* **Chang, Kun Soo; et al., 89f:28035**

Arai, Asao On dimensional reduction of functional measures. **89j:28002**

Chang, Joo Sup *see* **Chang, Kun Soo; et al., 89f:28035**

Chang, Kun Soo (*with* Ryu, K. S.) A generalized converse measurability theorem. **89e:28021**

— (*with* Ahn, Jae Moon; Chang, Joo Sup) Notes on the analytic Yeh-Feynman integrable functionals. **89f:28035**

Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Absolute continuity of smooth measures. **89f:28036**

Johnson, Gerald W. (*with* Lapidus, Michel L.) Une multiplication non commutative des fonctionnelles de Wiener et le calcul opérationnel de Feynman. (English summary) [A noncommutative multiplication of Wiener functionals and Feynman's operational calculus] **89i:28004**

Kluvánek, Igor Integration and the Feynman-Kac formula. **89i:28005**

Kozak, P. P. Wiener measures in the Λ-product of spaces. (Russian. English summary) **89e:28022**

Lapidus, Michel L. *see* **Johnson, Gerald W., 89i:28004**

Muldowney, P. ★ A general theory of integration in function spaces, including Wiener and Feynman integration. **89i:28006**

Okazaki, Yoshiaki (*with* Takahashi, Yasuji) 0-1 laws for kernels of a linear uniform measure. **89a:28010**

— *see also* **Takahashi, Yasuji, 89a:28009**

Rogers, Alice Fermionic path integration and Grassmann Brownian motion. **89g:28018**

Ryu, K. S. *see* **Chang, Kun Soo, 89e:28021**

Sokhadze, G. A. *see* **Daletskiĭ, Yu. L., 89f:28036**

Suchanecki, Zdzisław Linear kernels of p-stable measures. **89g:28019**

Takahashi, Yasuji (*with* Okazaki, Yoshiaki) Uniform measures on linear spaces. **89a:28009**

— *see also* **Okazaki, Yoshiaki, 89a:28010**

Tišer, Jaroslav Differentiation theorem for Gaussian measures on Hilbert space. **89m:28023**

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Bogachēv, V. I. Subspaces of the differentiability of smooth measures on infinite-dimensional spaces. **89e:46046**

— Differentiability of measures in the sense of Skorokhod. **89h:60005**

Chebotarēv, A. M. Approximately complete sets of the generalized Feynman measure. **89e:35129**

Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Equivalence of measures that are shifted along the trajectories of a vector field. (Russian) **89f:46097**

— (*with* Pipia, G. M.) Quasidistributions in function spaces connected with evolution differential equations. **89a:46099**

Davydov, Yu. A. A remark on the absolute continuity of the distributions of Gaussian functionals. **89d:60005**

Fang, Shizan Une inégalité isopérimétrique sur l'espace de Wiener. (English summary) [An isoperimetric inequality on Wiener space] **89m:60131**

Heiliö, Matti Weakly summable measures in Banach spaces. **89e:46048**

Hirsch, F. A. Propriété d'absolue continuité pour les équations différentielles stochastiques dépendant du passé. (English summary) [The absolute continuity property for stochastic differential equations with coefficients that depend on the past] **89a:60143**

Hora, Akihito *see* **Yamasaki, Yasuo, 89b:46061**

Hu, Yao Zhong Un nouvel exemple de distribution de Hida. [A new example of Hida distribution] **89j:60115**

— (*with* Meyer, P.-A.) Sur les intégrales multiples de Stratonovitch. [On the Stratonovich multiple integrals] **89k:60070**

Johnson, Gerald W. (*with* Skoug, David) Stability theorems for the Feynman integral. **89b:58042**
Kemperman, J. H. B. The median of a finite measure on a Banach space. **89h:46032**
Koval′chik, I. M. A nonlinear transformation of Gaussian measures. (Russian) **89f:60043**
Koval′chik, Yu. I. Determination of and special cases of the calculation of the Feynman integral in a space of continuous vector functions of several variables. (Russian. English summary) **89h:65035**
Ktitarev, D. V. The Feynman formula in a phase space for a class of systems of pseudodifferential equations. (Russian) **89a:35233**
Kusuoka, Shigeo Some remarks on Getzler's degree theorem. **89c:58120**
Li, Yŭ Chia Unitary operators on the space of L^2-functions over abstract Wiener spaces. **89h:47045**
Likhoded, N. A. (*with* Sobolevskiĭ, P. I.) Approximate calculation of a class of path integrals and a class of multiple integrals. (Russian. English summary) **89b:65058**
Linde, Werner Uniqueness theorems for Gaussian measures in l_q, $1 \leq q < \infty$. **89a:60017**
Marnevskaya, L. A. (*with* Yanovich, L. A.) Construction of Chebyshev quadrature formulas for path integrals of a certain type. (Russian. English summary) **89g:65022**
Meyer, P.-A. *see* **Hu, Yao Zhong, 89k:60070**
Norin, N. V. The mean value theorem connected with infinite-dimensional thermal potentials. (Russian) **89a:46100**
Okazaki, Yoshiaki *see* **Takahashi, Yasuji, 89f:46098** *and* **89h:47034**
Park, Chull (*with* Skoug, David) Conditional Yeh-Wiener integrals with vector-valued conditioning functions. **89m:60198**
Petrov, V. A. The calculation of integrals, with respect to "modular" measures, of exponentials with a quadratic functional in the exponent. (Russian. English summary) **89h:65036**
Pipia, G. M. *see* **Daletskiĭ, Yu. L., 89a:46099**
Potthoff, J. Littlewood-Paley theory on Gaussian spaces. **89d:60072**
Ruiz de Chávez, J. Espaces de Fock pour les processus de Wiener et de Poisson. [Fock spaces for Wiener and Poisson processes] **89h:60062**
Shabozov, M. Sh. (*with* Shabozov, O. Sh.) Approximate calculation of path integrals with respect to Gaussian measures by local splines of minimal deficiency. (Russian. Tajiki summary) **89j:65024**
Shabozov, O. Sh. *see* **Shabozov, M. Sh., 89j:65024**
Simon, Károly Some dual statements concerning Wiener measure and Baire category. **89k:26003**
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Sokhadze, G. A. *see* **Daletskiĭ, Yu. L., 89f:46097**
Stroock, Daniel W. Homogeneous chaos revisited. **89h:60103**
Takahashi, Yasuji (*with* Okazaki, Yoshiaki) Pre-Gaussian cylindrical measures on Banach spaces. **89f:46098**
— (*with* Okazaki, Yoshiaki) On some properties of Gaussian covariance operators in Banach spaces. **89h:47034**
Talagrand, Michel The structure of sign-invariant **GB**-sets and of certain Gaussian measures. **89c:60059**
Yamasaki, Yasuo (*with* Hora, Akihito) Differentiable shifts for measures on infinite-dimensional spaces. **89b:46061**
Yanovich, L. A. *see* **Marnevskaya, L. A., 89g:65022**

28C99 None of the above, but in this section

Gudder, Stanley P. (*with* Rüttimann, Gottfried T.) Finite function spaces and measures on hypergraphs. **89a:28011**
— (*with* Rüttimann, Gottfried T.) Positive sets in finite linear function spaces. **89a:28012**
Keller, Hans A. Measures on orthomodular vector space lattices. **89m:28024**
Rüttimann, Gottfried T. *see* **Gudder, Stanley P., 89a:28011** *and* **89a:28012**

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Balibrea Gallego, Francisco Kernels of measures and kernels of summability. (Spanish. English summary) **89m:28009**
Dal Maso, Gianni (*with* De Giorgi, Ennio; Modica, Luciano) Weak convergence of measures on spaces of lower semicontinuous functions. **89i:46028**
De Giorgi, Ennio *see* **Dal Maso, Gianni; et al., 89i:46028**
Dieckmann, Jan Volume functions in general relativity. **89j:83052**
Modica, Luciano *see* **Dal Maso, Gianni; et al., 89i:46028**
Zbăganu, G. Some remarks concerning the angle between two subspaces of $L^p(\Omega, \mathscr{K}, P)$, $1 \leq p \leq \infty$. **89g:46060**
Zhaurov, Yu. V. On the asymptotics of convolutions of complex-valued measures in Banach spaces. (Russian) **89a:60071**

28Dxx Measure-theoretic ergodic theory [see also 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

Fomin, S. V. (*with* Kornfel′d, I. P.; Sinaĭ, Ya. G.) ★ Teoria ergodyczna. (Polish) [Ergodic theory] **89e:28023**
(Jakubowski, Jacek) *see* **Fomin, S. V.; et al., 89e:28023**
Kornfel′d, I. P. *see* **Fomin, S. V.; et al., 89e:28023**
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Kifer, Yuri ★ Ergodic theory of random transformations. **89c:58069**

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Dynamical systems ★ Dynamical systems. **89g:58061**
Lecture Notes in Mathematics ★ Dynamical systems. **89g:58061**
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Ergodic Theory and Dynamics ★ Dynamical systems. **89g:58061**

28D05 Measure-preserving transformations

Aaronson, Jon The intrinsic normalising constants of transformations preserving infinite measures. **89g:28020**
Ageev, O. N. Dynamical systems with a Lebesgue component of even multiplicity in the spectrum. (Russian) **89h:28021**
Alexander, J. C. (*with* Parry, William) Discerning fat baker's transformations. **89m:28025**
Alpern, Steve (*with* Prasad, V. S.) End behaviour and ergodicity for homeomorphisms of manifolds with finitely many ends. **89a:28013**
— (*with* Prasad, V. S.) Weak mixing manifold homeomorphisms preserving an infinite measure. **89a:28014**
— (*with* Choksi, J. R.; Prasad, V. S.) Conjugates of infinite measure preserving transformations. **89m:28026**
Alufohai, Imohimi C. Bernoulli maps of a Lebesgue space. **89e:28024**
Baggett, L. W. On circle-valued cocycles of an ergodic measure-preserving transformation. **89g:28021**
— On functions that are trivial cocycles for a set of irrationals. **89h:28022a**
— (*with* Merrill, Kathy D.) Equivalence of cocycles under an irrational rotation. **89h:28022b**
Berend, Daniel Multiple ergodic theorems. **89j:28003**
Bergelson, Vitaly Weakly mixing PET. **89g:28022**
Bertrand-Mathis, Anne Ensembles intersectifs et récurrence de Poincaré. [Intersective sets and Poincaré recurrence] **89h:28023**
Bourgain, J. On pointwise ergodic theorems for arithmetic sets. (French summary) **89c:28018**
— Temps de retour pour les systèmes dynamiques. (English summary) [Return times for dynamical systems] **89e:28025**
— On the maximal ergodic theorem for certain subsets of the integers. **89f:28037a**
— On the pointwise ergodic theorem on L^p for arithmetic sets. **89f:28037b**
Boyle, Mike (*with* Marcus, Brian; Trow, Paul) Resolving maps and the dimension group fo shifts of finite type. **89c:28019**
— (*with* Krieger, Wolfgang) Almost Markov and shift equivalent sofic systems. **89i:28007**
Campbell, James (*with* Petersen, Karl) The spectral measure and Hilbert transform of a measure-preserving transformation. **89i:28008**
Chersi, Franco Weak convergence of measures and dynamical systems on noncompact spaces. (Italian summary) **89g:28023**
Choksi, J. R. *see* **Alpern, Steve; et al., 89m:28026**
Derriennic, Y. (*with* Hachem, Bachar) Sur la convergence en moyenne des suites presque sous-additives. [On the convergence in the mean of almost subadditive sequences] **89h:28024**
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(Sobolev, S. L.) *see* **Kolmogorov, A. N., 89a:01104**

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Sung, Nak So (*with* Yang, Seung Kab) Topological entropy for maps of the p-nary sets and the one-dimensional spaces. **89g:54046**

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Trow, Paul *see* **Boyle, Mike; et al., 89c:28019**

Tu, Pao Shêng Symmetric periodic orbits of continuous odd functions on the interval. **89k:58247**

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Vaienti, S. Energy integral and correlation integral for mixing repellers. **89k:58158**

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Wojtkowski, Maciej P. Measure theoretic entropy of the system of hard spheres. **89i:82015**

Xiong, Jin Cheng A chaotic map with topological entropy. **89b:58143**

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28D99 None of the above, but in this section

Bezuglyĭ, S. I. Outer conjugacy of automorphisms of the normalizer of a flow. (Russian) **89m:28034**

Brown, Gavin (*with* Dooley, A. H.) A class of ergodic measures. **89h:28033**

Caracciolo, S. (*with* Radicati di Brozolo, Luigi A.) Entropy and data acquisition. (*see* **89m:81002**)

Choksi, J. R. (*with* Hawkins, J. M.; Prasad, V. S.) Abelian cocycles for nonsingular ergodic transformations and the genericity of type III$_1$ transformations. **89a:28019**
Dooley, A. H. *see* **Brown, Gavin, 89h:28033**
Feldman, Jacob (*with* Sutherland, C. E.; Zimmer, Robert J.) Normal subrelations of ergodic equivalence relations. **89m:28035**
Gologan, Radu-Nicolae Ergodic theorems in σ-lattice cones. **89g:28031**
Hawkins, J. M. *see* **Choksi, J. R.; et al., 89a:28019**
Morita, Takehiko Deterministic version lemmas in ergodic theory of random dynamical systems. **89e:28036**
Polterovich, L. V. Transport in dynamical systems. **89g:28032**
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Boyarsky, A. A matrix method for estimating the Liapunov exponent of one-dimensional systems. **89g:58118**
Boyle, Mike Nasu's simple automorphisms. **89j:54041**
Choffrut, Christian Unavoidable subsets of words. (Spanish. French summary) **89h:68081**
Douady, Raphaël La théorie de Pesin. [Pesin theory] **89h:58099**
Ègamberdiev, O. I. A subadditive ergodic theorem for absolute contractions of JBW-algebras. (Russian) **89k:46079**
Fēdorov, A. L. *see* **Vinokurov, V. G.; et al., 89k:22009**
Fried, David Finitely presented dynamical systems. **89h:58157**
Golodets, V. Ya. (*with* Sinel′shchikov, S. D.) Outer conjugacy for actions of continuous amenable groups. **89c:46087**
Guerre, S. (*with* Raynaud, Y.) Sur les isométries de $L^p(X)$ et le théorème ergodique vectoriel. [The isometries of $L^p(X)$ and the vector-valued ergodic theorem] **89i:47054**
Hamachi, Toshihiro (*with* Nasu, Masakazu) Topological conjugacy for 1-block factor maps of subshifts and sofic covers. **89j:54043**
Lampreia, J. P. (*with* Rica da Silva, A.; Sousa Ramos, J.) Subtrees of the unimodal maps tree. (Italian summary) **89b:58109**
Lin, Yi Xing Relations between the zero-one law of the convergence of quasicharacter sequences and ergodic measures. (Chinese) **89f:28034**
Millet, Annie (*with* Sucheston, Louis) On fixed points and multiparameter ergodic theorems in Banach lattices. **89i:47068**
Nasu, Masakazu Topological conjugacy for sofic systems and extensions of automorphisms of finite subsystems of topological Markov shifts. **89j:54045**
— *see also* **Hamachi, Toshihiro, 89j:54043**
Okazaki, Yoshiaki (*with* Takahashi, Yasuji) The ergodicity of the convolution $\mu * \nu$ on a vector space. **89a:46101**
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Singh, Raj Kishor (*with* Veluchamy, T.) Nonatomic measure spaces and Fredholm composition operators. **89e:47049**
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Starkov, A. N. Ergodic decompositions for homogeneous flows. **89i:22010**
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Vinokurov, V. G. (*with* Rubshteĭn, B. A.; Fēdorov, A. L.) Normal subgroupoids and extensions of measure groupoids. **89k:22009**
Wittmann, Rainer Ein starkes “Null-Zwei”-Gesetz in L^p. [A strong “zero-two” law in L^p] **89d:47017**
Yoshimoto, Takeshi Pointwise ergodic theorems in function classes M_p^k. (French summary) **89k:47062**

28Exx Miscellaneous topics

28E05 Nonstandard measure theory [see also 03H05]

Cartier, Pierre (*with* Feneyrol-Perrin, Yvette) Comparaison des diverses théories d'intégration en analyse non standard. (English summary) [Comparison among various integration theories in nonstandard analysis] **89m:28036**
Feneyrol-Perrin, Yvette *see* **Cartier, Pierre, 89m:28036**
Landers, Dieter (*with* Rogge, Lothar) Universal Loeb-measurability of sets and of the standard part map with applications. **89d:28015**
— (*with* Rogge, Lothar) Nonstandard methods for families of τ-smooth probability measures. **89j:28007**
Loeb, Peter A. A lattice formulation of real and vector valued integrals. (*see* **89m:03060**)
Rogge, Lothar *see* **Landers, Dieter, 89d:28015** *and* **89j:28007**

Items with secondary classifications in 28E05

Lindstrøm, Tom An invitation to nonstandard analysis. (*see* **89m:03060**)
Navara, Mirko (*with* Pták, Pavel) Quantum logics with the Radon-Nikodým property. **89f:81022**
Pták, Pavel *see* **Navara, Mirko, 89f:81022**
Ross, David Andrew Measures invariant under local homeomorphisms. **89c:28015**
Tzouvaras, A. A notion of measure for classes in AST. **89j:03041a**
— Correction to the paper: “A notion of measure for classes in AST”. **89j:03041b**

28E10 Fuzzy measures [see also 03E72]

Asai, Kiyoji *see* **Ichihashi, H.; et al., 89m:28039**
Bassanezi, Rodney C. (*with* Greco, Gabriele H.) On functionals representable by fuzzy measures. **89m:28037**
Berres, Manfred λ-additive measures on measure spaces. **89m:28038**
Butnariu, D. Additive fuzzy measures and integrals. III. **89g:28033**
Greco, Gabriele H. On L-fuzzy integrals of measurable functions. **89a:28020**
— *see also* **Bassanezi, Rodney C., 89m:28037**
Hua, Wen Xiu The properties of some nonadditive measures. **89k:28012**
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Klement, Erich Peter A Radon-Nikodým theorem for fuzzy-valued measures. **89m:28040**
Matłoka, Marian On fuzzy integrals. **89f:28047**
Piasecki, Krzysztof A generalization of fuzzy P-measure. **89h:28034**
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Squillante, Massimo (*with* Ventre, Aldo G. S.) Fuzzy measures and convergence. **89k:28013**
Suzuki, Hisakichi On fuzzy measures defined by fuzzy integrals. **89f:28048**
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Ventre, Aldo G. S. *see* **Squillante, Massimo, 89k:28013**
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Höhle, Ulrich A general theory of fuzzy plausibility measures. **89e:60007**
Ichihashi, H. (*with* Tanaka, Hideo) A fuzzy fault tree formulated by a class of fuzzy measures. **89k:03068**
Klir, G. J. Where do we stand on measures of uncertainty, ambiguity, fuzziness, and the like? **89b:00037**
Tanaka, Hideo *see* **Ichihashi, H., 89k:03068**
Ventre, Aldo G. S. (*with* Weber, Siegfried) Evaluations of fuzzy sets based on orderings and measures. **89k:92088**
Weber, Siegfried Conditional measures based on Archimedean semigroups. **89f:60006**
— *see also* **Ventre, Aldo G. S., 89k:92088**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–01 Elementary exposition; textbooks

(Aparicio Bernardo, Emiliano) *see* **Markushevich, A. I., 89f:30001** *and* **89f:30002**
Markushevich, A. I. ★ Teoría de las funciones analíticas. Tomo I. (Spanish) [Theory of analytic functions. Vol. I] **89f:30001**
— ★ Teoría de las funciones analíticas. Tomo II. (Spanish) [Theory of analytic functions. Vol. II] **89f:30002**
Oliveira, J. Silva Polynomials and entire functions. (Portuguese) (Not in MR)
Pinchuk, S. I. ★ Методы геометрической теории функций комплексного переменного. (Russian) [Methods of the geometric theory of functions of a complex variable] **89g:30001**
Porter, R. Michael Topography, topology and Riemann surfaces. (Spanish) (*see* **89k:00008**)

Items with secondary classifications in 30–01

Braden, Bart Pólya's geometric picture of complex contour integrals. **89m:30003**
Singh, Vikramaditya[1] Some recent developments in the theory of univalent functions. **89f:30034**

30–02 Advanced exposition (research surveys, monographs, etc.)

Brannan, David A. (*with* Hayman, Walter) Research problems in complex analysis. **89m:30001**
Hayman, Walter *see* **Brannan, David A., 89m:30001**
Jones, Gareth A. (*with* Singerman, David) ★ Complex functions. **89b:30001**
Singerman, David *see* **Jones, Gareth A., 89b:30001**

Items with secondary classifications in 30–02

Gehring, F. W. Topics in quasiconformal mappings. **89c:30051**
Hellerstein, Simon Real zeros of derivatives of meromorphic functions and solutions of differential equations—a survey with problems and conjectures. **89d:30035**
Iliev, Lyubomir G. ★ Laguerre entire functions. **89h:30042**
Nag, Subhashis ★ The complex analytic theory of Teichmüller spaces. **89f:32040**
Rodin, Yu. L. ★ Generalized analytic functions on Riemann surfaces. **89j:30065**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 30–03

Boas, R. P. Selected topics from Pólya's work in complex analysis. **89k:01030**
Braden, Bart Pólya's geometric picture of complex contour integrals. **89m:30003**
Constantinescu, Corneliu Simion Stoïlow. **89e:01043**

Fuchs, Werner Beispiele der Anwendung von Kettenbrüchen durch C. F. Gauss. [Examples of the application of continued fractions by C. F. Gauss] **89a:01031**
(Gauß, Carl Friedrich) *see* **Fuchs, Werner, 89a:01031**
Gray, Jeremy ★ Linear differential equations and group theory from Riemann to Poincaré. **89d:01041**
Klein, F. ★ Funktionentheorie in geometrischer Behandlungsweise. (German) [Function theory with geometrical treatment] **89b:01022**
(König, Fritz) *see* **Klein, F., 89b:01022**
(Pólya, George) *see* **Boas, R. P., 89k:01030**
(Stoïlow, Simion) *see* **Constantinescu, Corneliu, 89e:01043**
Ul'yanov, P. L. Metric function theory. (Russian) **89i:42002**

30–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 30–04

Cerlienco, L. (*with* Mignotte, Maurice; Piras, F.) Computing the measure of a polynomial. **89a:12001**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Computer assisted number theory with applications. **89a:11130**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89a:11130**
Lounesto, Pertti Functions on Clifford algebras. **89j:30068**
Mignotte, Maurice *see* **Cerlienco, L.; et al., 89a:12001**
Piras, F. *see* **Cerlienco, L.; et al., 89a:12001**

30–06 Proceedings, conferences, etc.

(Drasin, D.) *see* **Holomorphic functions and moduli, 89c:30001** *and* **89c:30002**
(Earle, Clifford J.) *see* **Holomorphic functions and moduli, 89c:30001** *and* **89c:30002**
(Gehring, F. W.) *see* **Holomorphic functions and moduli, 89c:30001** *and* **89c:30002**
(Hersch, Joseph) *see* **Complex analysis, 89j:30001**
(Huber, Alfred) *see* **Complex analysis, 89j:30001**
(Ibragimov, I. I.) *see* **Special problems in function theory, 89f:30003** *and* **89f:30004**
(Kra, Irwin) *see* **Holomorphic functions and moduli, 89c:30001** *and* **89c:30002**
(Laine, I.) *see* **Complex analysis, Joensuu 1987, 89j:30002**
(Maksudov, F. G.) *see* **Special problems in function theory, 89f:30004**
(Marden, A.) *see* **Holomorphic functions and moduli, 89c:30001** *and* **89c:30002**
(Napalkov, V. V.) *see* **Investigations in the theory of the approximation of functions, 89g:30002**
(Pfluger, Albert) *see* **Complex analysis, 89j:30001**
(Rickman, Seppo) *see* **Complex analysis, Joensuu 1987, 89j:30002**
(Sorvali, T.) *see* **Complex analysis, Joensuu 1987, 89j:30002**
(Zhuang, Qi Tai) *see* **Lectures on complex analysis, 89k:30001**

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Berkeley, CA ★ Holomorphic functions and moduli. I. **89c:30001**
— ★ Holomorphic functions and moduli. II. **89c:30002**
Bibliography:
  Pfluger, Albert ★ Complex analysis. **89j:30001**
Biography:
  Pfluger, Albert ★ Complex analysis. **89j:30001**
Birthday:
  Pfluger, Albert ★ Complex analysis. **89j:30001**
Colloquium:
  Complex Analysis ★ Complex analysis, Joensuu 1987. **89j:30002**
Complex analysis ★ Complex analysis. **89j:30001**
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Conference:
  Analytic Functions ★ Proceedings of the 9th Conference on Analytic Functions. **89b:30002**
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— ★ Holomorphic functions and moduli. II. **89c:30002**
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Joensuu ★ Complex analysis, Joensuu 1987. **89j:30002**
Lecture Notes in Mathematics ★ Complex analysis, Joensuu 1987. **89j:30002**
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Lublin ★ Proceedings of the 9th Conference on Analytic Functions. **89b:30002**
Proceedings:
  Conference on Analytic Functions ★ Proceedings of the 9th Conference on Analytic Functions. **89b:30002**
Research on univalent functions and some of their applications ★ Tanba kansu to shuju no oyo ni tsuite no kenkyu. [Research on univalent functions and some of their applications] **89j:30003**
Special problems in function theory ★ Специальные вопросы теории функций. (Russian) [Special problems in function theory] **89f:30003**
— ★ Специальные вопросы теории функций. Вып. 2. (Russian) [Special problems in function theory. No. 2] **89f:30004**
Symposium:
  Complex Analysis ★ Lectures on complex analysis. **89k:30001**
  Research on Univalent Functions and some of their Applications ★ Tanba kansu to shuju no oyo ni tsuite no kenkyu. [Research on univalent functions and some of their applications] **89j:30003**
Workshop:
  Holomorphic Functions and Moduli ★ Holomorphic functions and moduli. I. **89c:30001**
  — ★ Holomorphic functions and moduli. II. **89c:30002**
Xian ★ Lectures on complex analysis. **89k:30001**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Huang, Meng Chun Another equivalence theorem for analytic functions. (Chinese. English summary) **89m:30002**

30A10 Inequalities in the complex domain

Aziz, Abdul[1] A new proof and a generalization of a theorem of de Bruijn. **89k:30002**
Braden, Bart Pólya's geometric picture of complex contour integrals. **89m:30003**
Kirjackis, Edward G. (*with* Mieliauskas, J.) Some estimates for the *n*th divided difference of functions that are regular in the unit disk. (Russian. English and Lithuanian summaries) **89d:30001**
Mamedkhanov, Dzh. I. Markov-Bernstein inequalities on V. V. Salaev curves. (Russian) (*see* **89j:00035**)
Mieliauskas, J. *see* **Kirjackis, Edward G., 89d:30001**
Odvirko-Budko, B. I. Continuation of some estimates for conditional stability. (Russian) **89h:30001**
Pavlović, Miroslav An inequality for the integral means of a Hadamard product. **89h:3000**

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Chen, Wen Ping A generalization and improvement of some inequalities of A. Aziz. (Chinese) (Not in MR)
Chen, Yue Qing Answer to a problem of Miller. **89e:30014**
Cho, Nak Eun *see* **Owa, Shigeyoshi, 89m:30028**
Danikas, N. Eine komplexe Ungleichung aus elementarer Sicht. [A complex inequality from an elementary viewpoint] **89i:51019**
Fan, Ky Inequalities for proper contractions and strictly dissipative operators. **89d:47023**
Hanson, Bruce (*with* Herron, David A.) The interior distance ratio in quadrilaterals and inequalities for rings. **89e:30038**
Herron, David A. *see* **Hanson, Bruce, 89e:30038**
Komatu, Yûsaku On oscillation in a class of analytic functions related to fractional integration. **89e:30018**
Li, Chêng Hsiung On some generalized inequalities of Lebedev-Milin type. **89b:30016**
Obradović, Milutin *see* **Srivastava, Hari M.; et al., 89m:30034**
Owa, Shigeyoshi (*with* Cho, Nak Eun) A note on analytic *p*-valent functions. **89m:30028**
— *see also* **Srivastava, Hari M.; et al., 89m:30034**
Srivastava, Hari M. (*with* Owa, Shigeyoshi; Obradović, Milutin) A note on a certain subclass of close-to-convex functions. **89m:30034**

30A99 None of the above, but in this section

Chen, Yi Cheng A simple method of finding an analytic function from its real or imaginary part. (Chinese. English summary) (Not in MR)
Rodríguez-Salinas, Baltasar Functions associated with a subset of the complex plane. (Spanish. English summary) **89f:30005**

Items with secondary classifications in 30A99

Kuusalo, Tapani A Green formula with multiplicities. **89m:30083**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Borbély, Albert Univalency as Tauberian condition. **89m:30004**
Chang, Feng Cheng Power-series unification and reversion. **89c:30003**
Gnuschke-Hauschild, D. (*with* Pommerenke, Ch.) On dominance in Hadamard gap series. **89c:30004**
Lubinsky, D. S. Power series equivalent to rational functions: a shifting-origin Kronecker type theorem, and normality of Padé tables. **89g:30003**
Naftalevich, A. On power series and their real parts. **89m:30005**
Pommerenke, Ch. *see* **Gnuschke-Hauschild, D., 89c:30004**
Saakyan, B. A. On a theorem of Abel type. (Russian. Armenian summary) (Not in MR)
Schiff, J. L. (*with* Walker, W. J.) A sampling theorem and Wintner's results on Fourier coefficients. **89j:30004**
Shvedenko, S. V. Estimates for the rate of growth of means on circles and of Taylor coefficients of functions in Bergman classes on the unit disc. (Russian) (*see* **89b:00012**)
Todorov, P. G. Taylor expansions of analytic functions related to $(1+z)^x - 1$. **89e:30001**
Vinnitskiĭ, B. V. Description of bases in generalized systems of exponentials. **89g:30004**
Walker, W. J. *see* **Schiff, J. L., 89j:30004**

Items with secondary classifications in 30B10

Boas, R. P. Selected topics from Pólya's work in complex analysis. **89k:01030**
Carmona, J. J. (*with* Cufí, J.; Pommerenke, Ch.) On the angular limits of Bloch functions. **89m:30071**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Computer assisted number theory with applications. **89a:11130**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89a:11130**
Cufí, J. *see* **Carmona, J. J.; et al., 89m:30071**
Gonchar, A. A. (*with* Suetin, S. P.) Uniform convergence of Padé approximants. (Russian) **89m:30077**
Kailath, Thomas A theorem of I. Schur and its impact on modern signal processing. **89c:00051**
Palagallo, Judith A. (*with* Price, Thomas E.) Properties of projections obtained by averaging certain polynomial interpolants. **89c:30099**

Plesyak, A. A. Approximation of analytic functions of two complex variables by polynomials in a principal star domain. **89g:32002**
(Pólya, George) *see* **Boas, R. P., 89k:01030**
Pommerenke, Ch. *see* **Carmona, J. J.; et al., 89m:30071**
Price, Thomas E. *see* **Palagallo, Judith A., 89c:30099**
Schur, I. On power series which are bounded in the interior of the unit circle. I, II. **89c:00052**
— *see also* **Kailath, Thomas, 89c:00051**
Suetin, S. P. *see* **Gonchar, A. A., 89m:30077**
Waldvogel, J. Zero-free disks in families of analytic functions. **89g:30012**
Zhang, Yi Qian An extension of a theorem of Davydov. (Chinese) **89e:40006**

30B20 Random power series

Kahane, J.-P. Distribution des valeurs des fonctions analytiques gaussiennes. [Value distribution of analytic Gaussian functions] **89d:30002**

Items with secondary classifications in 30B20

Sankaranarayanan, G. On the theory of random polynomials. **89m:60124**

30B30 Boundary behavior of power series, over-convergence

Dodunova, L. K. On the overconvergence of universal series. **89d:30003**
Mahler, K. On two analytic functions. **89f:30006**
Ransford, T. J. Some quantitative Tauberian theorems for power series. **89g:30005**

Items with secondary classifications in 30B30

Allan, G. R. (*with* O'Farrell, Anthony G.; Ransford, T. J.) A Tauberian theorem arising in operator theory. **89c:47003**
O'Farrell, Anthony G. *see* **Allan, G. R.; et al., 89c:47003**
Ransford, T. J. *see* **Allan, G. R.; et al., 89c:47003**

30B40 Analytic continuation

Falcón Rodríguez, Carlos M. (*with* García Cruz, María Antonia) Association of an *L*-analytic function to every multivalued complex function. (Spanish. English summary) **89e:30002**
Freund, M. *see* **Zayed, A. I.; et al., 89g:30006**
García Cruz, María Antonia *see* **Falcón Rodríguez, Carlos M., 89e:30002**
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Johnston, Elgin The Faber transform and analytic continuation. **89e:30003**
Odvirko-Budko, B. I. Continuation from the interior arc of a curve. **89j:30005**
Zayed, A. I. (*with* Freund, M.; Görlich, E.) A theorem of Nehari revisited. **89g:30006**

Items with secondary classifications in 30B40

Brück, Rainer (*with* Merzlyakov, S. G.) Representation of certain functions analytic in a strip or in the plane. **89g:30050**
Bühring, Wolfgang An analytic continuation formula for the generalized hypergeometric function. **89i:33004**
D'yachenko, M. I. The analyticity of sums of trigonometric series with infinite-monotone coefficients. (Russian) **89a:42011**
Escassut, Alain *see* **Sarmant-Durix, Marie Claude, 89k:30049**
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Zakharov, S. A. Analytic continuation of a Dirichlet series. (Russian) **89c:11137**

30B50 Dirichlet series and other series expansions, exponential series [see also 40–XX, 41–XX, 42–XX]

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Balakrishnan, U. Laurent expansion of Dirichlet series. II. **89a:30001**
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Freund, M. The generalized Faber operator and the convergence of generalized Faber expansions. **89m:30006**
Gaĭsin, A. M. Behavior of the sum of a Dirichlet series in half-strips. (Russian) **89c:30005**
Ibragimov, I. I. (*with* Akhmedov, T. G.) The domain of convergence of a Laurent-Dirichlet series with complex exponents [Reviewed in RZhMat 1978:3 B186]. (Russian) (*see* **89f:30003**)
Kasimov, È. I. Linear combinations of systems of functions that are close to exponential [Reviewed in RZhMat 1978:5 B75]. (Russian) (*see* **89f:30003**)
Leont'ev, A. F. Representation of functions by series of generalized exponentials. **89h:30003**
Leont'eva, T. A. Estimate of a polynomial in generalized exponential functions in the convex hull of two domains. (Russian summary) **89k:30003**
Oganesyan, G. K. Dirichlet series with independent exponents. (Russian. Armenian summary) (*see* **89c:00021**)
Pak, I. N. Asymptotic formulas and estimates for sums of special Kapteyn series. (Russian) **89b:30003**
Schweizer, B. On the Jacobi series. **89g:30007**
Sheremeta, M. N. Uniqueness theorems for Dirichlet entire series. (Russian) **89a:30002**
Skaskiv, O. B. The behavior of the maximum term of a Dirichlet series that is absolutely converging in a half-plane. (Russian. English summary) **89i:30001**
Vasin, A. P. Coefficients of Dirichlet series on a system of segments that begin at the origin. (Russian) (*see* **89j:00036**)

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Brück, Rainer (*with* Merzlyakov, S. G.) Representation of certain functions analytic in a strip or in the plane. **89g:30050**
Das, A. G. (*with* Lahiri, B. K.) Bessel type functions involving Dirichlet series. **89d:30031**
Ding, Shan Rui A proof of Mandelbrojt's fundamental inequality for two variables. (Chinese. English summary) **89j:32006**
Dodunova, L. K. On the overconvergence of universal series. **89d:30003**
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Ibragimov, G. I. Representation of analytic functions in a closed polydomain by Dirichlet series. **89h:32001**
Kasana, Harvir S. An existence theorem for the proximate order of analytic functions. **89c:30108**
Krimmer, Wolfgang (*with* Mennicken, Reinhard) ★ Entwicklungen analytischer Funktionen nach Eigenlösungen im Parameter nichtlinearer Differentialgleichungen. (German) [Expansions of analytic functions in eigensolutions in the parameter of nonlinear differential equations] **89c:34008**
Kumar, Naresh On the (p,q)-order and (p,q)-type of entire Dirichlet series. (Turkish summary) **89a:30025**
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Sheremeta, M. N. The equivalence of logarithms for the maximum of a modulus and the maximal term of an entire Dirichlet series. (Russian) **89c:30067**
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Shushbaev, S. Sh. *see* **Maksudova, M. K., 89g:11034**
Sorokivskiĭ, V. M. Behavior on the real axis of an entire function of slow growth given by a Dirichlet series. (Russian) **89a:30022**
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Zakharov, S. A. Analytic continuation of a Dirichlet series. (Russian) **89c:11137**

30B60 Completeness problems, closure of a system of functions

Gorgula, V. I. (*with* Nagnibida, N. I.) A special polynomial basis of a space of analytic functions. **89f:30007**
Ibragimov, F. I. *see* **Ibragimov, I. I., 89g:30008**
Ibragimov, I. I. (*with* Ibragimov, F. I.) Multiple completeness in the sense of M. V. Keldysh of some systems of entire functions. **89g:30008**
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Bustamante González, Jorge The Dini condition and the Cauchy integral. (Spanish. English summary) **89d:30045**
Dzhrbashyan, M. M. (*with* Rafaelyan, S. G.) Interpolation expansions in classes of entire functions and the Riesz bases generated by them. (Russian. English and Armenian summaries) **89c:30094**
Gorgula, V. I. (*with* Nagnibida, N. I.) Some remarks on a polynomial basis of a space of analytic functions. (Russian) **89c:30096**
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Kaz'min, Yu. A. Basis families in some spaces of analytic functions. (Russian) **89m:46039**
Khabibullin, B. N. Smallness of growth on the imaginary axis of entire functions of exponential type with given zeros. **89h:30043**
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30B70 Continued fractions [see also 11A55, 40A15]

Aptekarev, A. I. (*with* Kalyagin, V. A.) Analytic properties of two-dimensional continued *P*-fraction expansions with periodic coefficients and their simultaneous Padé-Hermite approximants. **89c:30006**
Bodnar, D. I. Positive-definite branching continued fractions. (Russian) (*see* **89j:00036**)
Dumont, Dominique (*with* Kreweras, Germain) Sur le développement d'une fraction continue liée à la série hypergéométrique et son interprétation en termes de records et anti-records dans les permutations. (English summary) [Expansion of a continued fraction associated with the hypergeometric series, and its interpretation in terms of records and antirecords in permutations] **89c:30007**
Hovstad, R. M. A reconsideration of the general parabola theorem in continued fractions. **89e:30005**

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Kreweras, Germain *see* **Dumont, Dominique, 89c:30007**

Njåstad, Olav Asymptotic expansions and contractive Laurent fractions. **89c:30008**

Sorokin, V. N. The convergence of simultaneous Padé approximants to functions of Stieltjes type. (Russian) **89c:30009**

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Cooper, S. Clement (*with* Jones, William B.; Magnus, Arne) General T-fraction expansions for ratios of hypergeometric functions. **89g:33005**

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30B99 None of the above, but in this section

Grigoryan, M. D. Expansion in a system of Takenaka-Malmquist rational fractions in Orlicz spaces. (Russian. Armenian summary) (Not in MR)

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Borisova, Galina S. Representations of entire functions of exponential type in series on Appell polynomials and quasipolynomials. **89c:30065**

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Pelling, M. J. Letter to the editor. **89g:30062**

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30Cxx Geometric function theory

30C10 Polynomials

Aptekarev, A. I. Asymptotic behavior of polynomials of simultaneous orthogonality and of a system of extremal problems for analytic functions. (Russian. English and French summaries) **89c:30010**

Aziz, Abdul[1] (*with* Dawood, Q. M.) Inequalities for a polynomial and its derivative. **89m:30009**

— Inequalities for the polar derivative of a polynomial. **89m:30010**

Bikmukhametov, I. Kh. An estimate of a polynomial from generalized exponentials. (Russian) **89m:30011**

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Cohen, Graeme L. (*with* Smith, G. H.) A simple verification of Ilieff's conjecture for polynomials with three zeros. **89i:30002**

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Smith, G. H. *see* **Cohen, Graeme L., 89i:30002**

Sonnenschein, Jakob On certain polynomial series. **89f:30009**

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Aziz, Abdul[1] A new proof and a generalization of a theorem of de Bruijn. **89k:30002**

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Marcellán, F. J. (*with* Rodriguez, Isabel) Orthogonal polynomials on the Bernoulli lemniscate and block Toeplitz matrices. (Spanish. English summary) **89k:42025**

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Zeheb, Ezra On polynomials having all zeros in a half strip of the complex plane. **89g:300**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Abian, A. A new proof of the fundamental theorem of algebra. **89e:30006**

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Boyd, David W. Reciprocal polynomials having small measure. II. **89m:30013**

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Jamjoom, Fatma B. (*with* Zaheer, N.) A coincidence theorem for symmetric multilinear forms. **89g:30010**

— (*with* Zaheer, N.) On Hörmander's ratio theorems. **89b:30005**

Jonckheere, Edmond (*with* Ma, Chingwo) A further simplification to Jury's stability test. **89m:30014**

Katkova, O. M. (*with* Ostrovskiĭ, I. V.) Zero sets of entire generating functions of finite-order Pólya frequency sequences. (Russian. English summary) **89g:30011**

Ma, Chingwo *see* **Jonckheere, Edmond, 89m:30014**

Makrelov, I. V. (*with* Semerdzhiev, Kh. I.; Tamburov, S. G.) A method for the simultaneous determination of all zeros of a given generalized polynomial in a Chebyshev system. (Russian) **89k:30007a**

— (*with* Semerdzhiev, Kh. I.; Tamburov, S. G.) On the paper: "A method for the simultaneous determination of all zeros of a given generalized polynomial in a Chebyshev system". (Russian) **89k:30007b**

Młynarski, Max The location of zeros of polyomials. **89h:30007**

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Saylor, Paul E. (*with* Smolarski, Dennis C.) Computing the roots of complex orthogonal and kernel polynomials. **89c:30014**

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Alfaro, M. Pilar (*with* Vigil, Luis) Solution of a problem of P. Turán on zeros of orthogonal polynomials on the unit circle. **89f:42020**
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— Zeros of polynomials and generalized Chebyshev polynomials. (*see* **89d:81002**)
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— Addendum to: "A note on the zeros of solutions of $w''+P(z)w=0$ where P is a polynomial" [Appl. Anal. **25** (1987), no. 1-2, 29–41; MR 88k:34004]. **89j:34010**
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Genin, Yves On the index theory of pseudo-Carathéodory functions. Applications to the linear system stability problem. **89a:30026**
Goodman, A. W. (*with* Schoenberg, I. J.) A proof of Grace's theorem by induction. **89a:12002**
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Langley, J. K. On the zeros of $(f''+\alpha f)f$ and a result of Steinmetz. **89e:30051**
Lapenko, Yu. P. (*with* Zhuravleva, M. I.) Distribution of the zeros of entire functions of completely regular growth. (Russian) **89m:30060**
Li, Hung C. The exact probability that the roots of quadratic, cubic, and quartic equations are all real if the equation coefficients are random. **89j:60069**
Li, Wen Qing Applications of number theory to control systems. (Chinese. English summary) **89j:93055**
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(Pólya, George) *see* **Boas, R. P., 89k:01030**
Rampl, Ivan A criterion for the distribution of null points of complex polynomials. (Czech. English and Russian summaries) **89j:65026**
Royden, H. L. The zeros of bounded holomorphic functions. **89f:30055**
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Wójcik, Adam Piotr On zeros of polynomials of best approximation to holomorphic and C^∞ functions. **89c:30103**
Xie, Lang (*with* Xie, Lin) On the problem of stability of polynomials. (Chinese) **89m:93077**
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Ying, Xingren (*with* Katz, I. Norman) A reliable argument principle algorithm to find the number of zeros of an analytic function in a bounded domain. **89g:65068**
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30C20 Conformal mappings of special domains

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Kra, Irwin Families of univalent functions and Kleinian groups. **89d:30008**

Kruglikov, V. I. Prime ends of three-dimensional domains with variable boundaries. **89d:30036**

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— Funktionalabschätzungen bei quasikonformen Abbildungen. [Functional estimates for quasiconformal mappings] **89d:30021**

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Kühnau, R. Möglichst konforme Spiegelung an einer Jordankurve. [Extremal conformal reflection in a Jordan curve] **89d:30023**

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— (*with* Schober, G.) The *N*th diameter problem in the class Σ. **89d:30012**

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30C75 Extremal problems for conformal and quasiconformal mappings, other methods

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30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

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– (*with* Schober, G.) The Nth diameter problem in the class Σ. **89d:30012**
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30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34A20, 39–XX]

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— (*with* Erëmenko, A.) A problem on Julia sets. **89g:30047**
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Gaĭda, Yu. R. Monodromy groups of mappings of a Riemann surface and compositions of meromorphic functions. (Russian. English summary) **89k:30023**
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Gill, John Compositions of analytic functions of the form $F_n(z) = F_{n-1}(f_n(z))$, $f_n(z) \to f(z)$. **89i:30028**
Gross, Fred (*with* Osgood, C. F.) Addendum to: "Further results on Fermat type equations and a characterization of the Chebyshev polynomials" [J. Math. Anal. Appl. **121** (1987), no. 2, 317–324; MR 88e:30072]. **89k:30024**
He, Yu Zan (*with* Yang, Chung Chun) On pseudoprimality of the product of some pseudoprime meromorphic functions. **89c:30061**
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Bessis, Daniel (*with* Geronimo, J. S.; Moussa, P.) Function weighted measures and orthogonal polynomials on Julia sets. **89h:58085**
Bézivin, Jean-Paul Indépendance linéaire des valeurs des solutions transcendantes de certaines équations fonctionnelles. (English summary) [Linear independence of the values of transcendental solutions of some functional equations] **89e:11039**
Borwein, P. B. Hypertranscendence of the functional equation $g(x^2) = [g(x)]^2 + cx$. **89m:39011**
Brown, Johnny E. Iteration of functions subordinate to schlicht functions. **89a:30019**
Bullett, Shaun Dynamics of quadratic correspondences. **89b:58106**
Douady, A. Chirurgie sur les applications holomorphes. [Surgery on holomorphic mappings] **89k:58139**
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Hild, Michael (*with* Komura, Masao) A trip in Julia space: morphological change of complex boundaries. (*see* **89g:82013**)
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Majchrzak, W. On roots of the equation $f(z) = Q(z)f(a)$ in the classes of functions represented by the Stieltjes integral. **89h:30022**
(Mandelbrot, B. B.) *see* **Peitgen, Heinz-Otto, 89j:58058**
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Pickover, Clifford A. Overrelaxation and chaos. **89h:58105**
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Procaccia, Itamar (*with* Zeitak, Reuven) Shape of fractal growth patterns: exactly solvable models and stability considerations. **89d:82079**
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Rovnyak, J. *see* **Markett, C.; et al., 89a:30038**
Rubel, Lee A. (*with* Singer, Michael F.) Autonomous functions. **89j:34013**
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Saupe, Dietmar Efficient computation of Julia sets and their fractal dimension. **89a:58059**
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Vaienti, S. Lyapunov exponent and bounds for the Hausdorff dimension of Julia sets of polynomial maps. (Italian and Russian summaries) **89c:58071**
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Yamaguchi, Yoshihiro (*with* Tanikawa, Kiyotaka; Mishima, Nobuhiko) Fractal basin boundary in dynamical systems and the Weierstrass-Takagi functions. **89d:58065**
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Zhuang, Qi Tai Generalizations of Nevanlinna's second fundamental theorem to the case of q small functions. **89e:30054**

30D10 Representations of entire functions by series and integrals

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Borisova, Galina S. Representations of entire functions of exponential type in series on Appell polynomials and quasipolynomials. **89c:30065**
Brück, Rainer Interpolation formulas for entire functions of exponential type and some applications. **89m:30053**
— (*with* Merzlyakov, S. G.) Representation of certain functions analytic in a strip or in the plane. **89g:30050**
Csordas, G. (*with* Norfolk, T. S.; Varga, Richard) A lower bound for the de Bruijn-Newman constant Λ. **89m:30054**
Ismailov, A. Ya. (*with* Mekhtiev, G. D.; Tagieva, M. A.) The growth of entire generalized analytic functions represented by series in a generalized Goncharov polynomial. (Russian) (*see* **89b:41001**)
Kasana, Harvir S. *see* **Srivastava, Hari M., 89d:30030**
Kolesnikov, S. V. A Keldysh problem concerning pointwise convergence of a sequence of polynomials. (Russian) (*see* **89j:00036**)
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Sheremeta, M. N. The equivalence of logarithms for the maximum of a modulus and the maximal term of an entire Dirichlet series. (Russian) **89c:30067**
— The derivative of an entire Dirichlet series. (Russian) **89m:30055**
Sorokivskiĭ, V. M. Behavior on the real axis of an entire function of slow growth given by a Dirichlet series. (Russian) **89a:30022**
Srivastava, Hari M. (*with* Kasana, Harvir S.) A note on the construction of the proximate type of an entire Dirichlet series with index-pair (p, q). **89d:30030**
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Yang, Lian Zhong The proximate order and proximate type of Legendre series of zero order (Chinese. English summary) **89g:30051**

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Kapoor, G. P. (*with* Nautiyal, A.) Growth and approximation of generalized bi-axially symmetric potentials. **89f:31006**
Leont'ev, A. F. Representation of functions by series of generalized exponentials. **89h:30003**
Nautiyal, A. *see* **Kapoor, G. P., 89f:31006**
Nestoridis, V. Interval averages. (Russian and Polish summaries) **89j:30006**

30D15 Special classes of entire functions and growth estimates

Boas, R. P. (*with* Trembinska, A. M.) An extension of Carlson's theorem for analytic functions. **89a:30023**
Das, A. G. (*with* Lahiri, B. K.) Bessel type functions involving Dirichlet series. **89d:30031**
Dickson, D. G. Factoring functions of exponential type with restrictions bounded on a line. (French summary) **89d:30032**
— Factoring Fourier transforms with zeros in a strip. **89k:30027**
Dzhabrailov, M. S. (*with* Salimov, F. G.) On the mean-square value of entire functions represented by Dirichlet series. (Russian. English and Azerbaijani summaries) **89f:30048**
Erëmenko, A. Entire functions bounded on the real axis. **89m:30056**
Frappier, Clément Some representation formulae for entire functions of exponential type. **89c:30068**
— Representation formulas for integrable and entire functions of exponential type I. **89m:30057**
Genchev, Todor An inequality for entire functions of exponential type. (Russian summary) **89g:30052**
Gol'dberg, A. A. (*with* Ostrovskiĭ, I. V.) Indicators of entire absolutely monotone functions of finite order. (Russian) **89a:30024**
Iliev, Lyubomir G. ★ Laguerre entire functions. **89h:30042**
Katkova, O. M. Entire functions with asymptotically multiply positive sequences of coefficients. (Russian) **89j:30036**
Khabibullin, B. N. Smallness of growth on the imaginary axis of entire functions of exponential type with given zeros. **89h:30043**
Kumar, Naresh On the (p, q)-order and (p, q)-type of entire Dirichlet series. (Turkish summary) **89a:30025**
— (*with* Srivastava, G. S.) On the proximate order of an entire function with index pair (p, q). **89h:30044**
— *see also* **Srivastava, G. S., 89i:30031**
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Parthasarathy, R. The growth of entire and meromorphic functions of nonintegral order. **89i:30030**
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Shraĭfel', I. S. Construction of entire functions with positive indicators and applications to representative systems. (Russian) **89g:30054**
Somasundaram, D. (*with* Thamizharasi, R.) A note on the entire functions of L-bounded index and L-type. **89c:30069**
Srivastava, G. S. (*with* Kumar, Naresh) On the generalized means of an entire Dirichlet series of index pair (p, q). **89i:30031**
— *see also* **Kumar, Naresh, 89h:30044** *and* **Vaish, S. K., 89m:30059**
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Ullrich, David C. Functions of exponential type and separated sequences. **89m:30058**
Vaish, S. K. (*with* Srivastava, G. S.) On the geometric means of products of entire functions of slow growth. (Turkish summary) **89m:30059**
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Berenstein, Carlos A. (*with* Yger, Alain) On Lojasiewicz-type inequalities for exponential polynomials. **89d:30006**
Bernal, Luis G. On growth k-order of solutions of a complex homogeneous linear differential equation. **89b:34010**

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Kapoor, G. P. (*with* Nautiyal, A.) Growth and approximation of generalized bi-axially symmetric potentials. **89f:31006**

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Lyubishkin, V. A. Regularized sums of the roots of generalized quasipolynomials. **89d:34054**

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30D20 Entire functions, general theory

Afsar, S. M. On the geometric means of product of entire functions. **89d:30033**

Gel′fer, E. S. The range of values of a functional in a class of functions of exponential type. (Russian) (*see* **89j:00036**)

Kumar, Naresh *see* **Srivastava, G. S.**, (Not in MR)

Kuzyk, A. D. (*with* Sheremeta, M. N.) Entire functions of bounded l-index. (Russian. English summary) **89h:30046**

Lapenko, Yu. P. (*with* Zhuravleva, M. I.) Distribution of the zeros of entire functions of completely regular growth. (Russian) **89m:30060**

Li, Song Ying Hayman directions of meromorphic functions. **89k:30028**

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Annina, M. B. Uniqueness of the solution of an integral equation of the first kind. (Russian) **89g:45001**

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Brück, Rainer (*with* Merzlyakov, S. G.) Representation of certain functions analytic in a strip or in the plane. **89g:30050**

Bultheel, Adhemar On the convergence of Schur parameters for a Toeplitz matrix with a meromorphic symbol. **89f:30058**

Christensen, Jens Peter Reus (*with* Fischer, Pal) Linear independence of iterates and entire solutions of functional equations. **89m:30051**

Deng, Guan Tie Une condition nécessaire et suffisante pour la quasi-analyticité de Mandelbrojt sur une demi-droite. (English summary) [A necessary and sufficient condition for quasi-analyticity in the sense of Mandelbrojt on the half line] **89f:26026**

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Gramain, François Fonctions entières arithmétiques. [Integer-valued arithmetical functions] **89a:11011**

Hayman, Walter Functions mapping rationals on rationals. **89a:30027**

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Katkova, O. M. (*with* Ostrovskiĭ, I. V.) Zero sets of entire generating functions of finite-order Pólya frequency sequences. (Russian. English summary) **89g:30011**

Kozitskiĭ, Yu. V. (*with* Mel′nik, N. O.) Eigenfunctions of differential operators of infinite order in a class of Laguerre entire functions. (Russian. English summary) **89g:34028**

Laine, I. Remarks on meromorphic solutions of the Riccati differential equation. **89h:34005**

Li, Bao Qin (*with* Wang, Yue Fei) An angular value distribution of entire functions. (Chinese. English summary) **89i:30039**

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Lomov, I. S. Necessary and sufficient conditions for the existence of entire analytic solutions of singularly perturbed equations. **89h:34053**

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Nakajima, Masumi The Taylor coefficients of $\zeta(s)$, $(s-1)\zeta(s)$ and $(z/(1-z))\zeta(1/(1-z))$. **89f:11120**

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Podoshev, L. R. The indicators of an entire function of finite order. (Russian) **89g:30053**

Polyakov, O. V. Exact constants of approximation by entire functions of exponential type. (Russian) **89m:30080**

Qiao, Jian Yong On pseudo-primality of the $2n$th power of prime entire functions. **89f:30047**

Sheremeta, M. N. Uniqueness theorems for Dirichlet entire series. (Russian) **89a:30002**

Srivastava, G. S. *see* **Vaish, S. K., 89m:30059**

Srivastava, P. D. (*with* Dutta, Salila) Proper Pincherle bases in the space of entire functions having fast growth. **89i:46024**

Toda, Nobushige On algebroid solutions of some binomial differential equations in the complex plane. **89g:34009**

Vaish, S. K. (*with* Srivastava, G. S.) On the geometric means of products of entire functions of slow growth. (Turkish summary) **89m:30059**

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Zeren, Bedriye M. Über die Transzendenz der Werte einiger schnell konvergenter Potenzreihen für algebraische Argumente. (English and Turkish summaries) [On the transcendence of values of some rapidly convergent power series for algebraic arguments] **89b:11063**

30D30 Meromorphic functions, general theory

Aliev, T. G. (*with* Tamrazov, P. M.) Contour-solid theorems for meromorphic functions allowing for zeros and nonunivalence. (Russian) **89c:30073**

Genin, Yves On the index theory of pseudo-Carathéodory functions. Applications to the linear system stability problem. **89a:30026**

Hayman, Walter Functions mapping rationals on rationals. **89a:30027**

Laine, I. Complex differential equations and Nevanlinna theory. II. Nonlinear differential equations. (Finnish. English summary) **89c:30074**

Makatsariya, G. T. On a property of meromorphic functions. (Russian. English and Georgian summaries) **89c:30075**

Mikaelyan, G. V. Growth of functions that are meromorphic in a half plane. (Not in MR)

Reade, Maxwell O. (*with* Todorov, P. G.) Extremal problems for certain Nevanlinna analytic functions. **89e:30050**

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Sarkisyan, S. Ts. The order of growth of meromorphic functions and the asymptotic properties of the meromorphic solutions of algebraic differential equations. (Russian. Armenian summary) **89i:30036**

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Ueda, Hideharu On the growth of meromorphic functions of order less than $\frac{1}{2}$. IV. **89m:30062**

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Adachi, Toshiaki Meromorphic extension of L-functions of Anosov flows and profinite graphs. **89j:58105**

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Cayford, A. H. *see* **Straus, E. G., 89j:30045**
Ganigi, M. D. *see* **Uralegaddi, B. A., 89c:30038**
Gromak, V. I. Autotransformations of the Painlevé equations. (Russian. English summary) **89e:34011**
— (*with* Tsegel′nik, V. V.) Solutions of the fifth Painlevé equations. (Russian. English summary) **89c:34007**
Järvi, Pentti On the continuation of meromorphic functions. **89k:30046**
Laine, I. Remarks on meromorphic solutions of the Riccati differential equation. **89h:34005**
Lapenko, Yu. P. Meromorphic functions with asymptotically close zeros and poles. (Russian) **89j:30040**
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Reczek, Krzysztof Rational approximation and estimation of the growth of meromorphic functions. (Russian and Polish summaries) **89k:30038**
Rønning, F. Duality applied to meromorphic functions with a simple pole at the origin. (Russian and Polish summaries) **89g:30026**
Song, Shu Gang (*with* Zhang, Xi Tang) Meromorphic solutions of a Riccati differential equation. (Chinese. English summary) **89k:34008**
Steinmetz, Norbert On the zeros of $(f^{(p)}+a_{p-1}f^{(p-1)}+\cdots+a_0f)f$. **89e:34059**
Straus, E. G. (*with* Cayford, A. H.) On the existence of essential singularities. **89j:30045**
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Uralegaddi, B. A. (*with* Ganigi, M. D.) Meromorphic convex functions with negative coefficients. **89c:30038**
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30D35 Distribution of values, Nevanlinna theory

Brownawell, W. Dale On the factorization of partial differential equations. **89c:30077**
Chen, Huai Hui *see* **Lü, Yi Nian, 89c:30080**
Dai, Chong Ji (*with* Wang, Shu Pei) On Nevanlinna's inverse problem of finite order. **89f:30049**
Drasin, D. Some recent successes in value-distribution theory. **89d:30034**
Drmota, Michael (*with* Tichy, Robert F.) C-uniform distribution of entire functions. **89j:30039**
Dzhrbashyan, A. M. Parametric representations of classes of meromorphic functions with an unbounded Tsuji characteristic. (Russian. English and Armenian summaries) **89i:30037**
Fernández Arias, Arturo Some results about the size of the exceptional set in Nevanlinna's second fundamental theorem. **89c:30078**
Gross, Fred (*with* Yang, Chung Chun) On zeros of $f(g(z))-\alpha(z)$. **89h:30047**
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Hellerstein, Simon Real zeros of derivatives of meromorphic functions and solutions of differential equations—a survey with problems and conjectures. **89d:30035**
Kohs, Werner P. (*with* Williamson, Jack) Derivatives of meromorphic functions of finite order. **89g:30056**
Langley, J. K. On the zeros of linear differential polynomials with small rational coefficients. **89c:30079**
— On the zeros of $(f''+\alpha f)f$ and a result of Steinmetz. **89e:30051**
Lapenko, Yu. P. Meromorphic functions with asymptotically close zeros and poles. (Russian) **89j:30040**
Lewis, John L. (*with* Wu, Jang-Mei) On conjectures of Arakelyan and Littlewood. **89i:30038**
Li, Bao Qin (*with* Wang, Yue Fei) An angular value distribution of entire functions. (Chinese. English summary) **89i:30039**
— On the quantity $\delta_s(g(z),f)$ of gappy entire functions. **89f:30050**
Lü, Yi Nian (*with* Chen, Huai Hui) On the existence of Nevanlinna direction of an algebroidal function. **89c:30080**
Mudalgi, A. A. *see* **Singh, Anand Prakash, 89b:30027**
Pang, Xue Cheng On singular directions of meromorphic functions. (Chinese. English summary) **89f:30051**
Rossi, John A half-plane version of a theorem of Borel. **89g:30057**
Shvedenko, S. V. Canonical products of Blaschke type for Nevanlinna-Dzhrbashyan classes. (Russian) (*see* **89j:00035**)
Singh, Anand Prakash (*with* Mudalgi, A. A.) Deficient values of meromorphic functions. **89b:30027**
Steinmetz, Norbert On the zeros of a certain Wronskian. **89k:30029**
Stoll, Wilhelm An extension of the theorem of Steinmetz-Nevanlinna to holomorphic curves. **89m:30064**
Sun, Dao Chun Common Borel directions of a meromorphic function of infinite order and its derivative. (Chinese) **89e:30052**
Sung, Chen Han Meromorphic functions maximal deficiency sum. **89b:30028**
Tichy, Robert F. *see* **Drmota, Michael, 89j:30039**
Tohge, Kazuya Meromorphic functions covering certain finite sets at the same points. **89g:30058**
Toppila, Sakari On the Nevanlinna characteristic of functions of small lower order. **89c:30081**
Townsend, D. Comparisons between $T(r,f)$ and the total variation of $\arg f(re^{i\theta})$ and $\log|f(re^{i\theta})|$. **89g:30059**
Wang, An Bin A note on Cartan's identity. (Chinese) (Not in MR)
Wang, Shu Pei *see* **Dai, Chong Ji, 89f:30049**
Wang, Yue Fei *see* **Li, Bao Qin, 89i:30039**
Williamson, Jack *see* **Kohs, Werner P., 89g:30056**
Winkler, Jõrg On the existence of meromorphic functions with a prescribed set of zeros, ones and poles and on functions sharing values. **89j:30041**
Wu, Jang-Mei *see* **Lewis, John L., 89i:30038**
Wu, Peng Cheng Deficient values and asymptotic values of entire functions. (Chinese) **89k:30030**
Yang, Chung Chun *see* **Gross, Fred, 89h:30047**
Yang, Le The argument distribution and number of deficient values of entire functions. (Chinese) (Not in MR)
— Deficient values and angular distribution of entire functions. **89c:30082**
Yang, Lian Zhong On the characteristic functions of meromorphic functions. (Chinese. English summary) **89m:30065**
— On the deficiency functions and exceptional functions of meromorphic functions. (Chinese) **89e:30053**
Yi, Hong Xun Meromorphic functions with two deficient values. (Chinese) **89c:30083**
Zhang, Zai Li An extreme value problem in value distribution theory. (Chinese. English summary) **89m:30066**
Zhu, Jing Hao An extension of the uniqueness theorem for meromorphic functions. (Chinese) **89f:30052**
— The general form of Hayman's inequality and the fixed points of meromorphic functions. **89h:30048**
Zhuang, Qi Tai On differential polynomials. **89c:30084**
— Generalizations of Nevanlinna's second fundamental theorem to the case of q small functions. **89e:30054**

Items with secondary classifications in 30D35

Bank, Steven B. A note on the zero-sequences of solutions of linear differential equations. **89b:34009**
Fujimoto, Hirotaka Modified defect relations for the Gauss map of minimal surfaces. **89m:53012**
Gao, Shi An Some results on the complex oscillation theory of periodic second-order linear differential equations. **89m:34005**
Gol′dberg, A. A. (*with* Ostrovskiĭ, I. V.) Indicators of entire absolutely monotone functions of finite order. (Russian) **89a:30024**
Hinkkanen, A. (*with* Rossi, John) Second order differential equations with rational coefficients. **89k:34006**
Hossain, Moqbul On an analogue of the Nevanlinna characteristics of functions of several complex variables. **89h:32007**
Kahane, J.-P. Distribution des valeurs des fonctions analytiques gaussiennes. [Value distribution of analytic Gaussian functions] **89d:30002**
Li, Song Ying (*with* Xie, Hui Chun) Distribution of moduli and normal families. (Chinese. English summary) **89f:30054**
— Hayman directions of meromorphic functions. **89k:30028**
Ostrovskiĭ, I. V. *see* **Gol′dberg, A. A., 89a:30024**
Parthasarathy, R. The growth of entire and meromorphic functions of nonintegral order. **89i:30030**
Rossi, John *see* **Hinkkanen, A., 89k:34006**
Sodin, M. L. Zeros and ones of entire functions of finite order. **89c:30072**
Steinmetz, Norbert Meromorphe Lösungen der Differentialgleichung $Q(z,w)d^2w/dz^2=P(z,w)(dw/dz)^2$. (English summary) [Meromorphic solutions of the differential equation $Q(z,w)d^2w/dz^2=P(z,w)(dw/dz)^2$] **89k:34009**
Vladimirov, V. S. The Wiener-Hopf equation in the Nevanlinna and Smirnov algebras and ultra-distributions. (*see* **89i:00025**)
Wakabayashi, Isao Algebraic values of functions on the unit disk. **89g:11061**
Xie, Hui Chun *see* **Li, Song Ying, 89f:30054**
Zhang, Guang Hou Entire functions with regions free of zeros. **89g:30055**

30D40 Cluster sets, prime ends, boundary behavior

Anderson, James Milne (*with* Pitt, L. D.) The boundary behavior of Bloch functions and univalent functions. **89m:30067**
Berman, Robert D. (*with* Nishiura, Togo) Boundary interpolation for inner functions on σ-dispersed subsets of the unit circle. **89m:30068**
Cai, Jian On the filling discs of meromorphic functions. (Chinese. English summary) **89f:30053**
Carmona, J. J. (*with* Cufí, J.) On analytic functions with locally connected cluster sets. **89g:30060**
Cayford, A. H. *see* **Straus, E. G., 89j:30045**
Cufí, J. *see* **Carmona, J. J., 89g:30060**
Fan, Ai Hua Complicated boundary singularities of some analytic functions. (Chinese. English summary) **89e:30055**
Gavrilov, V. I. (*with* Zakharyan, V. S.) Sets of Lindelöf points of arbitrary complex functions. (Russian. Armenian summary) **89i:30040**
Gvaradze, M. I. Holomorphic functions whose maximum of the modulus grows arbitrarily slowly. (Russian) **89e:30056**
Huang, Chün Hsiung A survey on Doob's problems in function theory and potential theory. II. **89i:30041**
Jastrzębski, Jan On sums of directional essential cluster sets. **89c:30085**
Jenkins, James A. On boundary correspondence for domains on the sphere. **89m:30069**
Kruglikov, V. I. Prime ends of three-dimensional domains with variable boundaries. **89d:30036**
Layek, A. K. Directional qualitative cluster sets. **89j:30042**
— Directional cluster sets and directional essential cluster sets. **89c:30086**
Matsumoto, Kikuji On the generalization of Frostman's theorem due to S. Kobayashi. **89j:30043**
Mul, A. P. Discrete limit values of analytic functions that are bounded in the upper half-plane. (Russian) **89g:30061**
Nishiura, Togo *see* **Berman, Robert D., 89m:30068**
Pitt, L. D. *see* **Anderson, James Milne, 89m:30067**
Pomel′nikov, Yu. V. Boundary uniqueness theorems for meromorphic functions. **89h:30049**

Ren, Fu Yao An extension of a theorem of Zygmund and its application. (Chinese) **89m:30070**
Samokhin, M. V. Some boundary properties of bounded analytic functions and the maximum modulus principle in arbitrarily connected domains. **89j:30044**
Shapiro, Joel H. Cluster set, essential range, and distance estimates in BMO. **89b:30029**
Straus, E. G. (*with* Cayford, A. H.) On the existence of essential singularities. **89j:30045**
Twomey, J. B. Tangential boundary behaviour of the Cauchy integral. **89e:30057**
Zakharyan, V. S. *see* **Gavrilov, V. I., 89i:30040**

Items with secondary classifications in 30D40

Abu-Muhanna, Yusuf (*with* Schober, G.) Harmonic mappings onto convex domains. **89e:30011**
Aleksandrov, A. B. Multiplicity of boundary values of inner functions. (Russian. English and Armenian summaries) **89e:30058**
Carmona, J. J. (*with* Cufí, J.) On the distance of an analytic function to VMO. **89a:30030**
— (*with* Cufí, J.; Pommerenke, Ch.) On the angular limits of Bloch functions. **89m:30071**
Cufí, J. *see* **Carmona, J. J., 89a:30030** *and* **89m:30071**
Èminyan, O. M. Boundary uniqueness theorems for analytic functions of several complex variables. (Russian) **89b:32011**
Georgijević, Dušan R. Radial derivatives of some analytic operator functions. **89e:47045**
Globevnik, Josip (*with* Stout, Edgar Lee) Analytic discs with rectifiable simple closed curves as ends. **89g:32009**
Kelbakiani, L. V. Boundary values of analytic functions of a certain class. (Russian. English and Georgian summaries) **89m:30073**
Lu, Jian Ke ★ Jiexi hanshu bianzhi wenti. (Chinese) [Boundary value problems for analytic functions] **89b:30036**
Musaev, K. M. Theorems of F. Riesz type in the theory of generalized analytic functions [Reviewed in RZhMat 1982:11 B206]. (Russian) (*see* **89f:30004**)
Ortega, Joaquin M. On quotients of holomorphic functions in the disc with boundary regularity conditions. **89e:30087**
Pommerenke, Ch. *see* **Carmona, J. J.; et al., 89m:30071**
Schober, G. *see* **Abu-Muhanna, Yusuf, 89e:30011**
Shaginyan, A. A. On tangential harmonic approximation and some related problems. **89g:31005**
Stout, Edgar Lee *see* **Globevnik, Josip, 89g:32009**
Ullrich, David C. A Bloch function in the ball with no radial limits. **89k:32009**

30D45 Normal functions, normal families

Aulaskari, Rauno (*with* Lappan, Peter) An integral criterion for normal functions. **89h:30050**
Carmona, J. J. (*with* Cufí, J.; Pommerenke, Ch.) On the angular limits of Bloch functions. **89m:30071**
Cufí, J. *see* **Carmona, J. J.; et al., 89m:30071**
Fernández, J. L. (*with* Pommerenke, Ch.) On the boundary behavior of Bloch functions. **89j:30046**
Hui, Stefen An extension of a theorem of J. Fernández. **89d:30037**
Lappan, Peter *see* **Aulaskari, Rauno, 89h:30050**
Li, Song Ying (*with* Xie, Hui Chun) Distribution of moduli and normal families. (Chinese. English summary) **89f:30054**
Minda, David Bloch and normal functions on general planar regions. **89m:30072**
Pelling, M. J. Letter to the editor. **89g:30062**
Pommerenke, Ch. *see* **Fernández, J. L., 89j:30046** *and* **Carmona, J. J.; et al., 89m:30071**
Xie, Hui Chun *see* **Li, Song Ying, 89f:30054**
Zhuang, Qi Tai On the theory and applications of Q_m-normal families of meromorphic functions. **89c:30087**

Items with secondary classifications in 30D45

Aulaskari, Rauno (*with* Lappan, Peter) The uniform continuity of the modulus of rotation automorphic functions. **89f:30069**
Lappan, Peter *see* **Aulaskari, Rauno, 89f:30069**
Yanagihara, Hiroshi Extremal functions for Bloch constants. **89c:30054**

30D50 Blaschke products, bounded characteristic, bounded functions, functions with positive real part

Aleksandrov, A. B. Multiplicity of boundary values of inner functions. (Russian. English and Armenian summaries) **89e:30058**
Berman, Robert D. Generalized variation and functions of slow growth. **89c:30088**
Cohn, William S. On fractional derivatives and star invariant subspaces. **89a:30029**
Dzhrbashyan, M. M. Survey of some achievements of Armenian mathematicians in the theory of integral representations and factorization of analytic functions. (Serbo-Croatian summary) **89g:30063**
Jevtić, Miroljub On the integral means of the fractional derivatives of the atomic inner function. **89c:30089**
Pan, Yi Fei Asymptotic properties of analytic functions with positive real part. (Chinese) **89e:30059**
Royden, H. L. The zeros of bounded holomorphic functions. **89f:30055**
Stephenson, Kenneth Construction of an inner function in the little Bloch space. **89k:30031**
Uluchev, Rumen An extremal problem in the set of Blaschke products with fixed multiplicities of the zeros. **89g:30064**

Items with secondary classifications in 30D50

Alpay, Daniel (*with* Dym, Harry) On applications of reproducing kernel spaces to the Schur algorithm and rational J unitary factorization. **89g:46051**
Aouf, M. K. A generalization of functions with real part bounded in the mean on the unit disc. **89h:30016**
Berman, Robert D. (*with* Nishiura, Togo) Boundary interpolation for inner functions on σ-dispersed subsets of the unit circle. **89m:30068**
Berndtsson, Bo $\bar\partial_b$ and Carleson type inequalities. **89b:32004**
Danikas, N. Über die mittlere Oszillation der logarithmischen Funktion. (English summary) [The mean oscillation of the logarithmic function] **89a:26001**
Delsarte, P. (*with* Genin, Yves) The tridiagonal approach to Szegő's orthogonal polynomials, Toeplitz linear systems, and related interpolation problems. **89d:30040**
Dym, Harry *see* **Alpay, Daniel, 89g:46051**
Genin, Yves On the index theory of pseudo-Carathéodory functions. Applications to the linear system stability problem. **89a:30026**
— *see also* **Delsarte, P., 89d:30040**
Nishiura, Togo *see* **Berman, Robert D., 89m:30068**
Papadimitrakis, M. Best uniform approximation by bounded analytic functions. **89k:30037**
Rubel, Lee A. Some mathematical limitations of the general-purpose analog computer. **89h:12013**
Shvedenko, S. V. Canonical products of Blaschke type for Nevanlinna-Dzhrbashyan classes. (Russian) (*see* **89j:00035**)
Stray, Arne Minimal interpolation by Blaschke products. II. **89g:30069**
Ushiki, Shigehiro A surgery on Blaschke's function. **89i:58072**

30D55 H^p-classes

de Abreu G., José Radial estimates of H^1 functions and refinements of theorems of Montel and Ostrowski-Khinchin. (Spanish. English summary) **89i:30042**
Arai, Hitoshi Bounded projections onto holomorphic Hardy spaces on planar domains. **89e:30060**
Carmona, J. J. (*with* Cufí, J.) On the distance of an analytic function to VMO. **89a:30030**
Cima, Joseph A. (*with* Janson, Svante; Yale, Keith) Completely continuous Hankel operators on H^∞ and Bourgain algebras. **89g:30065**
Cufí, J. *see* **Carmona, J. J., 89a:30030**
Danikas, N. On the integrals of BMOA functions. **89f:30056**
Fekete, Otto Some integral operators and Hardy spaces. **89e:30061**
Fernández, J. L. A boundedness theorem for L^1/H_0^1. **89i:30043**
Foiaş, Ciprian (*with* Tannenbaum, Allen) On the Nehari problem for a certain class of L^∞-functions appearing in control theory. **89g:30066**
Gotoh, Yasuhiro On some extension property for BMO functions on Riemann surfaces. **89k:30032**
Janson, Svante *see* **Cima, Joseph A.; et al., 89g:30065**
Kelbakiani, L. V. Boundary values of analytic functions of a certain class. (Russian. English and Georgian summaries) **89m:30073**
Kerman, R. A. (*with* Sawyer, Eric T.) Carleson measures and multipliers of Dirichlet-type spaces. **89i:30044**
Khudaĭberganov, G. A formula of Carleman for functions of matrices. **89d:30038**
Kim, Yong Chan *see* **Lee, Sangbae, 89c:30090**
Lee, Sangbae (*with* Kim, Yong Chan) Multipliers of G^p and Bloch functions. **89c:30090**
Luecking, Daniel H. A new proof of an inequality of Littlewood and Paley. **89g:30067**
Olivier, Patrick (*with* Rahman, Q. I.; Varga, Richard) On a new proof and sharpenings of a result of Fejér on bounded partial sums. **89k:30033**
Rahman, Q. I. *see* **Olivier, Patrick; et al., 89k:30033**
Rukshin, S. E. A natural interpolation in the space H^∞. (Russian) (*see* **89f:00013**)
Sawyer, Eric T. *see* **Kerman, R. A., 89i:30044**
Tannenbaum, Allen *see* **Foiaş, Ciprian, 89g:30066**
Varga, Richard *see* **Olivier, Patrick; et al., 89k:30033**
Videnskiĭ, I. V. An analogue of Carleson measures. **89j:30047**
Vo Kim An′ Linear functionals and dually extremal problems in weighted Hardy spaces in a half plane. **89h:30051**
Xiao, Jian Bin On three open problems of Campbell and Leach. (Not in MR)
Yale, Keith *see* **Cima, Joseph A.; et al., 89g:30065**
Yamashita, Shinji Subharmonicity for areal Bloch-function criteria. **89d:30039**

Items with secondary classifications in 30D55

Aĭzenberg, L. A. Extrapolation of functions that are holomorphic in a product of half-planes or strips. Analytic continuation of the spectrum. **89k:32033**
Aleksandrov, A. B. Multiplicity of boundary values of inner functions. (Russian. English and Armenian summaries) **89e:30058**
Bishop, Christopher J. A counterexample in conformal welding concerning Hausdorff dimension. **89g:30042**
Bourdon, Paul Density of the polynomials in Bergman spaces. **89a:46060**
Burbea, Jacob Sharp inequalities for holomorphic functions. **89e:32012**
Dzhrbashyan, M. M. Survey of some achievements of Armenian mathematicians in the theory of integral representations and factorization of analytic functions. (Serbo-Croatian summary) **89g:30063**
Ganesh, C. Algorithms for the interpolation with outer functions. **89i:30045**
Globevnik, Josip The modulus of Rudin-Carleson extensions. **89e:46059**
Hasumi, Morisuke (*with* Kataoka, Saburô) Remarks on Hardy-Orlicz classes. **89k:46034**
Hensgen, Wolfgang On complementation of vector-valued Hardy spaces. **89f:46082**
Izuchi, Keiji (*with* Izuchi, Y.) Inner functions and division in Douglas algebras. II. **89f:46108**
Izuchi, Y. *see* **Izuchi, Keiji, 89f:46108**
Jevtić, Miroljub On the integral means of the fractional derivatives of the atomic inner function. **89c:30089**
Kabaila, V. Interpolation in Hardy classes. (Russian) (*see* **89j:00036**)
Kataoka, Saburô *see* **Hasumi, Morisuke, 89k:46034**
Kuzina, T. S. Extremal problems for analytic functions of Hardy-Solomentsev classes in multiply connected domains. (Russian) **89a:30006**
Luecking, Daniel H. Dominating measures for spaces of analytic functions. **89e:46060**
Markett, C. (*with* Rosenblum, M.; Rovnyak, J.) A Plancherel theory for Newton spaces. **89a:30038**
Muhly, Paul S. (*with* Saito, Kichi-Suke) Analytic subalgebras of von Neumann algebras. **89d:46069**
Nicolau, Artur The coefficients of Nevanlinna's parametrization are not in H^p. **89k:30035**
Pavlović, Miroslav An inequality for the integral means of a Hadamard product. **89h:30002**
Rosenblum, M. *see* **Markett, C.; et al., 89a:30038**

Rovnyak, J. *see* **Markett, C.; et al., 89a:30038**
Rukshin, S. E. On the existence of a linear operator of interpolation of germs of analytic functions. (Russian) (*see* **89f:00013**)
Saito, Kichi-Suke *see* **Muhly, Paul S., 89d:46069**
Saitoh, Saburou Cauchy integrals for L_2 functions. **89m:30084**
Sarason, Donald Angular derivatives via Hilbert space. **89f:30045**
Shapiro, Joel H. Cluster set, essential range, and distance estimates in BMO. **89b:30029**
Sharpley, Robert A characterization of the interpolation spaces of H^1 and L^∞ on the line. **89h:46041**
Siafarikas, P. D. On the conjugate equation of a singular differential operator. **89c:34010**
Spraker, John S. Note on arc-length and harmonic measure. **89h:30014**
Yao, Bi Yun Recent research on BMO. (Chinese. English summary) **89j:46023**
Younis, Rahman On extreme points of families described by subordination. **89c:30058**

30D60 Quasianalytic and other classes of functions

Akopyan, S. A. *see* **Khachatryan, I. O., 89m:30075**
Antonino Andréu, José A. (*with* Romaguera, Salvador) Segments and sets $L(f)$ for functions in the Bloch space $\widetilde{\mathscr{B}}_0$. (Spanish. English summary) **89j:30048**
Fuglede, Bent Finely holomorphic functions. A survey. **89j:30049**
Holland, Finbarr (*with* Walsh, David) Growth estimates for functions in the Besov spaces A_p. **89m:30074**
Khachatryan, I. O. (*with* Akopyan, S. A.) Quasi-analytic classes of functions that are representable by integrals with Mittag-Leffler kernels. **89m:30075**
Rodríguez-Salinas, Baltasar Regularization of sequences. (Spanish. English summary) **89j:30050**
Romaguera, Salvador *see* **Antonino Andréu, José A., 89j:30048**
Walsh, David *see* **Holland, Finbarr, 89m:30074**

Items with secondary classifications in 30D60

Tchamitchian, P. Étude dans un cadre hilbertien des algèbres de Beurling munies d'un poids radial à croissance rapide. [Study in a Hilbertian framework of Beurling algebras equipped with a radial weight having rapid growth] **89f:43004**

30D99 None of the above, but in this section

Kaufman, Robert Hausdorff measures and removable sets. **89a:30031**
Pavlović, Miroslav Mean values of harmonic conjugates in the unit disc. **89h:30052**

Items with secondary classifications in 30D99

Gaisin, A. M. Behavior of the sum of a Dirichlet series in half-strips. (Russian) **89c:30005**
Garnett, J. B. Corona problems, interpolation problems, and inhomogeneous Cauchy-Riemann equations. **89d:32010**
Gentili, Graziano On nonuniqueness of complex geodesics in convex bounded domains. (Italian summary) **89k:32047**
Prather, Carl L. (*with* Ran, A. C. M.) Factorization of a class of meromorphic matrix valued functions. **89b:47025**
Ran, A. C. M. *see* **Prather, Carl L., 89b:47025**

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

Berg, Christian (*with* Christensen, Jens Peter Reus; Maserick, P. H.) Sequences with finitely many negative squares. **89k:30034**
Christensen, Jens Peter Reus *see* **Berg, Christian; et al., 89k:30034**
Delsarte, P. (*with* Genin, Yves) The tridiagonal approach to Szegő's orthogonal polynomials, Toeplitz linear systems, and related interpolation problems. **89d:30040**
Ermakova, L. Yu. Summation of Lagrange interpolation processes of a complex variable. (Russian) (*see* **89j:00036**)
Estrada, Ricardo (*with* Kanwal, R. P.) Moment sequences for a certain class of distributions. **89d:30041**
Ganesh, C. Algorithms for the interpolation with outer functions. **89i:30045**
Genin, Yves *see* **Delsarte, P., 89d:30040**
Georgijević, Dušan R. Reproducing kernels and multiple interpolation by holomorphic functions. (Serbo-Croatian summary) **89g:30068**
Ibragimov, F. I. *see* **Orudzhev, G. A., (89f:30004)**
Ibragimov, I. I. (*with* Kasimov, È. I.) A basis system of analytic functions and its application to the convergence of an Abel-Goncharov interpolation process [Reviewed in RZhMat 1978:2 B70]. (Russian) (*see* **89f:30003**)
Jayne, John W. Recursively generated polynomials and Geronimus' version of orthogonality on a contour. **89f:30057**
Jevtić, Miroljub Interpolation by functions in mixed-norm spaces of analytic functions. **89d:30042**
Kabaila, V. Interpolation in Hardy classes. (Russian) (*see* **89j:00036**)
Kanwal, R. P. *see* **Estrada, Ricardo, 89d:30041**
Karenin, L. Ya. Interpolation on perfect subsets of the unit circle. (Russian) (*see* **89c:00006**)
Kasimov, È. I. *see* **Ibragimov, I. I., (89f:30003)**
Kuzina, T. S. A class of extremal problems related to the problem of moments. (Russian. Armenian summary) (Not in MR)
L'vova, S. V. A problem of multiple interpolation in a half plane. (Russian) **89b:30030**
MacGregor, T. H. (*with* Tepper, D. E.) Finite boundary interpolation by univalent functions. **89e:30062**
Mamaturdiev, T. M. A sufficient condition for the solvability of an interpolation problem for a system of generalized analytic functions. (Russian) **89c:30091**
Maserick, P. H. *see* **Berg, Christian; et al., 89k:30034**
Nicolau, Artur The coefficients of Nevanlinna's parametrization are not in H^p. **89k:30035**
Njåstad, Olav Solution of the strong Hamburger moment problem by Laurent continued fractions. **89m:30076**
— Unique solvability of an extended Stieltjes moment problem. **89c:30092**
Nudel'man, A. A. A multipoint matrix moment problem. **89e:30063**
Orudzhev, G. A. Interpolation by rational functions of meromorphic functions in a plane with a finite set of points deleted [Reviewed in RZhMat 1982:11 B127]. (Russian) (*see* **89f:30004**)
— (*with* Ibragimov, F. I.) Domain of convergence of some improper Stieltjes integrals with application to problems of interpolation [Reviewed in RZhMat 1982:11 B126]. (Russian) (*see* **89f:30004**)
Rukshin, S. E. On the existence of a linear operator of interpolation of germs of analytic functions. (Russian) (*see* **89f:00013**)
Saitoh, Saburou A counterexample in the Pick-Nevanlinna interpolation problem. **89h:30053**
Shonkwiler, R. On the solution of moment problems by reproducing kernel methods. **89d:30043**
Stray, Arne Minimal interpolation by Blaschke products. II. **89g:30069**
Tagieva, M. A. Interpolation by generalized rational functions in a multiply connected domain. (Russian) (*see* **89c:00016**)
Tepper, D. E. *see* **MacGregor, T. H., 89e:30062**
Varma, A. K. Complex interpolating polynomials. **89e:30064**

Items with secondary classifications in 30E05

Arov, D. Z. Regular and singular J-inner matrix functions and corresponding extrapolation problems. **89d:47082**
Arsene, Gr. (*with* Ceaușescu, Zoia; Constantinescu, T.) Schur analysis of some completion problems. **89k:47010**
Ball, Joseph A. (*with* Helton, J. William; Sung, Chen Han) Nonlinear solutions of Nevanlinna-Pick interpolation problems. **89e:47043**
de Branges, Louis Underlying concepts in the proof of the Bieberbach conjecture. **89f:30029**
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Constantinescu, T. *see* **Arsene, Gr.; et al., 89k:47010**
Csordas, G. (*with* Varga, Richard) Moment inequalities and the Riemann hypothesis. **89f:30010**
Dzhakov, P. (*with* Mitreva, M.) Linear operators that solve the Hermite problem on an algebraic variety in $\mathbf{C}^n$. (Russian) **89d:32013**
Foiaș, Ciprian (*with* Tannenbaum, Allen) On the Nehari problem for a certain class of L^∞-functions appearing in control theory. **89g:30066**
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Garnett, J. B. Corona problems, interpolation problems, and inhomogeneous Cauchy-Riemann equations. **89d:32010**
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Ivanchenko, T. S. (*with* Sakhnovich, L. A.) An operator approach to V. P. Potapov's scheme for the investigation of interpolation problems. (Russian) **89d:47085**
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Ovcharenko, I. E. Two-variable positive definite sequences. **89k:44014**
Pták, Vlastimil An operator-theoretic approach to theorems of the Pick-Nevanlinna and Carathéodory types. **89i:47010**
Rukshin, S. E. A natural interpolation in the space H^∞. (Russian) (*see* **89f:00013**)
Saitoh, Saburou Applications of the general theory of reproducing kernels. **89c:46040**
Sakhnovich, L. A. *see* **Ivanchenko, T. S., 89d:47085**
Sonnevend, Gy. Sequential, stable and low complexity methods for the solution of moment (mass recovery) problems. **89h:65095**
Sung, Chen Han *see* **Ball, Joseph A.; et al., 89e:47043**
Tannenbaum, Allen *see* **Foiaș, Ciprian, 89g:30066** *and* **Francis, B. A., 89k:93003**
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Varga, Richard *see* **Csordas, G., 89f:30010**
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Zolotarevskiĭ, V. A. Interpolation of functions on a complex contour and its application in the approximate solution of integral equations. (Russian) **89i:41011**

30E10 Approximation in the complex domain

Al-Jarrah, Radwan On the Hermite interpolation of entire functions. **89g:30070**
Ambroladze, A. U. Simultaneous approximations of the root and logarithm. (Russian) **89c:30093**
Anderson, James Milne (*with* Hinkkanen, A.; Lesley, F. David) On theorems of Jackson and Bernstein type in the complex plane. **89d:30044**
Andrievskiĭ, V. V. Uniform convergence of Bieberbach polynomials in domains with a piecewise-quasiconformal boundary. (Russian) (*see* **89j:00036**)
Belyaev, V. A. Approximation of functions of a complex variable by polynomials. (Russian) (*see* **89j:00035**)
Belyĭ, V. I. (*with* Strelkovskaya, I. V.) Approximation of functions by plane analytic complex splines. (Russian. English summary) **89e:30065**
Bishop, Christopher J. Approximating continuous functions by holomorphic and harmonic functions. **89j:30051**
Bokhari, M. A. On certain sequences of least squares approximants. **89i:30046**
Bultheel, Adhemar On the convergence of Schur parameters for a Toeplitz matrix with a meromorphic symbol. **89f:30058**
Bustamante González, Jorge The Dini condition and the Cauchy integral. (Spanish. English summary) **89d:30045**

Dikshit, H. P. (*with* Sharma, Ambikeshwar; Singh, Vikramaditya^1; Stenger, Frank) Rivlin's theorem on Walsh equiconvergence. **89g:30071**
Dzhrbashyan, M. M. (*with* Rafaelyan, S. G.) Interpolation expansions in classes of entire functions and the Riesz bases generated by them. (Russian. English and Armenian summaries) **89c:30094**
Farkov, Yu. A. Widths of classes of analytic functions with bounded derivatives. (Not in MR)
Freund, M. The degree of polynomial approximation and interpolation of analytic functions. **89g:30072**
Freund, Roland On some approximation problems for complex polynomials. **89f:30059**
Gauthier, Paul M. Uniform and better-than-uniform elliptic approximations on unbounded sets. **89c:30095**
Gerus, O. F. Analytic functions with a given order of modulus of smoothness. (Russian) **89i:30047**
Golub, A. P. Simultaneous Padé approximants for a set of degenerate hypergeometric functions. (Russian) **89f:30060**
Gonchar, A. A. (*with* Suetin, S. P.) Uniform convergence of Padé approximants. (Russian) **89m:30077**
— Rational approximations of analytic functions. (Russian) **89e:30066**
— (*with* Rakhmanov, E. A.) Equilibrium distributions and the rate of rational approximation of analytic functions. **89h:30054**
Gorgula, V. I. (*with* Nagnibida, N. I.) Some remarks on a polynomial basis of a space of analytic functions. (Russian) **89c:30096**
Guseinov, G. A. Convergence of A. O. Gel′fond operators of an analytic function in an ellipse. (Russian) (*see* **89b:41001**)
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Ibadov, N. V. An approximation problem for the convolution equation in a space of analytic functions. (Russian) **89b:30031**
Ibragimov, I. I. (*with* Shikhaliev, N. I.) Best approximation in the mean of analytic functions in the space $A_p(|z|<1)$ [Reviewed in RZhMat 1978:5 B82]. (Russian) (*see* **89f:30003**)
— (*with* Mamedkhanov, Dzh. I.) Constructive characterization on closed sets in the complex plane [Reviewed in RZhMat 1983:1 B107]. (Russian) (*see* **89f:30004**)
— (*with* Shikhaliev, N. I.) Best polynomial approximation of analytic functions of class E_p [Reviewed in RZhMat 1982:11 B124]. (Russian) (*see* **89f:30004**)
Illán González, Jesús Note on the analytical function approximation and an associated linear problem. **89f:30061**
Ismailov, A. Ya. (*with* Tagieva, M. A.) Rate of approximation of generalized analytic functions by partial sums of a series in generalized Faber polynomials on continua with nonzero local geometric characteristic. (Russian) (*see* **89b:41001**)
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Khadzhiĭski, V. Kh. Analytically negligible sets with respect to the L^p-norm. (Russian) **89g:30073**
Kroó, András (*with* Saff, E. B.) The density of extreme points in complex polynomial approximation. **89c:30097**
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Levin, A. L. (*with* Saff, E. B.) Some examples in approximation on the unit disk by reciprocals of polynomials. **89m:30078**
López Lagomasino, Guillermo (*with* Jiménez Pozo, Miguel A.) Korovkin type theorems for certain classes of analytic functions. (Spanish summary) **89c:30098**
Lou, Yuan Ren On the uniform approximation by rational functions on the closed sets of complex domain. (Chinese summary) **89i:30048**
Lyubarskiĭ, Yu. I. Dirichlet series in Smirnov spaces and interpolation by entire functions of exponential type. **89f:30062**
Mamedkhanov, Dzh. I. Approximation in the mean on arcs of Riesz class [Reviewed in RZhMat 1982:11 B119]. (Russian) (*see* **89f:30004**)
— *see also* **Ibragimov, I. I.**, (**89f:30004**)
Martínez Finkelshtein, Andreí Concerning an inverse problem for rows of multipoint Padé approximants of Newtonian type. (Spanish. English summary) **89d:30046**
Mikaelyan, I. I. An approximate application of rational Newman functions. (Russian. Armenian summary) (*see* **89c:00021**)
Momoniat, I. A de Montessus de Ballore theorem for best rational approximation over the whole plane. **89j:30052**
Musaev, A. (*with* Seifullaev, R. K.) A direct local theorem of approximation on a quasiconformal arc. (Russian) **89f:30063**
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Nautiyal, A. *see* **Rizvi, S. R. H., 89i:30049**
Nikishin, E. M. (*with* Sorokin, V. N.) ★ Рациональные аппроксимации и ортогональность. (Russian) [Rational approximations and orthogonality] **89m:30079**
O'Farrell, Anthony G. Simplified proof of Vitushkin's squares theorem. **89e:30067**
— Rational approximation and weak analyticity. II. **89k:30036**
Palagallo, Judith A. (*with* Price, Thomas E.) Properties of projections obtained by averaging certain polynomial interpolants. **89c:30099**
Papadimitrakis, M. Best uniform approximation by bounded analytic functions. **89k:30037**
Pekarskiĭ, A. A. Chebyshev rational approximation in a disk, on a circle and on a segment. **89e:30068**
Polyakov, O. V. Exact constants of approximation by entire functions of exponential type. (Russian) **89m:30080**
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Rakhmanov, E. A. *see* **Gonchar, A. A., 89h:30054**
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Reczek, Krzysztof Rational approximation and estimation of the growth of meromorphic functions. (Russian and Polish summaries) **89k:30038**
Rizvi, S. R. H. (*with* Nautiyal, A.) On the approximation and interpolation of an analytic function. **89i:30049**
Saff, E. B. *see* **Kroó, András, 89c:30097** *and* **Levin, A. L., 89m:30078**
Seifullaev, R. K. *see* **Musaev, A., 89f:30063**
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Shen, Xie Chang (*with* Wu, Zhi Jian) Generalized rational approximation in Bers spaces. **89m:30081**
— Approximation in Bers spaces. (Chinese. English summary) **89m:30082**
Shikhaliev, N. I. *see* **Ibragimov, I. I.**, (**89f:30003**) *and* (**89f:30004**)
Simha, R. R. The Behnke-Stein theorem for open Riemann surfaces. **89j:30053**
Singh, Vikramaditya^1 *see* **Dikshit, H. P.; et al., 89g:30071**
Sorokin, V. N. *see* **Nikishin, E. M., 89m:30079**
Srivastava, G. S. The degree of convergence of entire functions and generalized type. **89c:30100**
— (*with* Rani, Sunita) On the approximation of analytic functions represented by Dirichlet series. **89c:30101**
— Approximation of entire functions of zero order. **89c:30102**
Stahl, Herbert Three different approaches to a proof of convergence for Padé approximants. **89d:30047**
Stenger, Frank *see* **Dikshit, H. P.; et al., 89g:30071**
Stojanova, Milena P. Equiconvergence in rational approximation of meromorphic functions. **89i:30050**
Strelkovskaya, I. V. *see* **Belyĭ, V. I., 89e:30065**
Suetin, S. P. *see* **Gonchar, A. A., 89m:30077**
Tagieva, M. A. *see* **Ismailov, A. Ya.**, (**89b:41001**)
Tang, Ping Tak Peter A fast algorithm for linear complex Chebyshev approximations. **89j:30054**
Wójcik, Adam Piotr On zeros of polynomials of best approximation to holomorphic and C^∞ functions. **89c:30103**
Wu, Zhi Jian *see* **Shen, Xie Chang, 89m:30081**

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Aizenberg, L. A. Extrapolation of functions that are holomorphic in a product of half-planes or strips. Analytic continuation of the spectrum. **89k:32033**
Aslanov, M. A. *see* **Musaev, K. M., 89g:30087**
Bagby, Thomas (*with* Gauthier, Paul M.) Approximation by harmonic functions on closed subsets of Riemann surfaces. **89j:30064**
— A Runge theorem for harmonic functions on closed subsets of Riemann surfaces. **89c:30111**
Boivin, André T-invariant algebras on Riemann surfaces. **89c:30113**
Bourdon, Paul Density of the polynomials in Bergman spaces. **89a:46060**
Boyanov, Borislav D. (*with* Grozev, Georgi R.) A note on the optimal recovery of functions in H^∞. **89g:41012**
de Bruin, Marcel G. Simultaneous partial Padé approximants. **89b:65045**
Carmona, J. J. (*with* Cufí, J.) On the distance of an analytic function to VMO. **89a:30030**
Cufí, J. *see* **Carmona, J. J., 89a:30030**
Danchenko, V. I. *see* **Dolzhenko, E. P., 89f:30014**
Dolzhenko, E. P. (*with* Danchenko, V. I.) The mapping of sets of finite α-measure by means of rational functions. **89f:30014**
Gauthier, Paul M. *see* **Bagby, Thomas, 89j:30064**
Grozev, Georgi R. *see* **Boyanov, Borislav D., 89g:41012**
Gürlebeck, Klaus Interpolation and best approximation in spaces of monogenic functions. (German summary) **89h:41006**
Korevaar, J. Polynomial approximation numbers, capacities and extended Green functions for $\mathbf{C}$ and $\mathbf{C}^N$. **89b:32022**
Kovtunets, V. V. An algorithm for constructing a polynomial of best approximation of complex-valued functions. (Russian) **89f:41009**
Kudryavtsev, S. N. On approximations of functional compacta by piecewise polynomial surfaces. **89d:41045**
Lubinsky, D. S. Padé tables of entire functions of very slow and smooth growth. II. **89f:41025**
Luo, L. S. (*with* Nuttall, J.) Asymptotic behavior of the Christoffel function related to a certain unbounded set. **89c:41007**
Musaev, K. M. (*with* Aslanov, M. A.) Mean approximation of generalized analytic functions. (Russian) **89g:30087**
Nguen Tu Tkhan′ Approximation of functions by polynomials on sets with a multiply connected complement. **89d:41013**
Nikishov, A. I. (*with* Ritus, V. I.) Asymptotic representations for some functions and integrals connected with Airy function. **89h:33018**
Nunokawa, Mamoru (*with* Owa, Shigeyoshi) A remark on certain multivalent functions. **89m:30025**
Nuttall, J. *see* **Luo, L. S., 89c:41007**
Opfer, G. Complex rational approximation with numerical experiments. **89f:65027**
Owa, Shigeyoshi *see* **Nunokawa, Mamoru, 89m:30025**
Pintér, F. (*with* Vértesi, P.) A Grünwald-Marcinkiewicz type theorem for Lagrange interpolation by entire functions of exponential type. **89f:41005**
Plesyak, A. A. Approximation of analytic functions of two complex variables by polynomials in a principal star domain. **89g:32002**
Rea, C. A global polynomial approximation of continuous functions on maximal, totally real submanifolds of $\mathbf{C}^n$. **89k:32006**
Reczek, Krzysztof The Newton-Padé approximants and the growth of meromorphic functions. **89i:30035**
Ritus, V. I. *see* **Nikishov, A. I., 89h:33018**
Saff, E. B. (*with* Totik, V.) Weighted polynomial approximation of analytic functions. **89j:41010**
Sakai, Makoto An index theorem on singular points and cusps of quadrature domains. **89i:30051**
Shirokov, N. A. Constructive description of Hölder classes on unbounded continua in $\mathbf{C}$. **89j:41032**
Sorokin, V. N. The convergence of simultaneous Padé approximants to functions of Stieltjes type. (Russian) **89c:30009**
Totik, V. *see* **Saff, E. B., 89j:41010**
Vértesi, P. *see* **Pintér, F., 89f:41005**
Vinnitskiĭ, B. V. Description of bases in generalized systems of exponentials. **89g:30004**
Wang, Zhao Fu Rational approximation on quasidisks. (Chinese. English summary) **89k:41023**

Wild, Paul Accelerating the convergence of power series of certain entire functions. **89a:65007**

Wolf, Edwin Functions in $R^2(E)$ and points of the fine interior. **89k:41021**

30E15 Asymptotic representations in the complex domain

Agranovich, P. Z. (*with* Logvinenko, V. N.) Two-term asymptotic expansions of entire functions and of Dzhrbashyan canonical products of integral order in a half-plane. (Russian) **89c:30104**

Gopala Krishna, J. (*with* Usha Sree Devi, M.) On a nonstandard proof of Watson's lemma concerning asymptotic expansions. **89f:30064**

Logvinenko, V. N. *see* **Agranovich, P. Z., 89c:30104**

Usha Sree Devi, M. *see* **Gopala Krishna, J., 89f:30064**

Varlamov, V. V. A method for obtaining asymptotic expansions of Cauchy-type integrals. (Russian) **89c:30105**

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Aptekarev, A. I. (*with* Kalyagin, V. A.) Analytic properties of two-dimensional continued P-fraction expansions with periodic coefficients and their simultaneous Padé-Hermite approximants. **89c:30006**

Brakalova, M. A. Asymptotic behaviour of strip mappings of some symmetric strips. **89a:30004**

Ding, Shan Rui A proof of Mandelbrojt's fundamental inequality for two variables. (Chinese. English summary) **89j:32006**

Flajolet, Philippe Mathematical methods in the analysis of algorithms and data structures. (*see* **89m:68002**)

Gawronski, Wolfgang (*with* Stadtmüller, Ulrich) On the zeros of Lerch's transcendental function with real parameters. **89g:30009**

Kalyagin, V. A. *see* **Aptekarev, A. I., 89c:30006**

Li, Jia Chun Some theorems in asymptotic analysis. **89j:41046**

Luppi, Jussi Evaluation of general high-order phase integrals. **89h:81040**

Makarov, G. I. (*with* Osipov, A. V.) Asymptotic Debye representations for cylindrical functions. (Russian. English summary) **89c:33013**

Nikishov, A. I. (*with* Ritus, V. I.) Asymptotic representations for some functions and integrals connected with Airy function. **89h:33018**

Njåstad, Olav Asymptotic expansions and contractive Laurent fractions. **89c:30008**

Osipov, A. V. *see* **Makarov, G. I., 89c:33013**

Pan, Yi Fei Asymptotic properties of analytic functions with positive real part. (Chinese) **89e:30059**

Ritus, V. I. *see* **Nikishov, A. I., 89h:33018**

Rodríguez-Salinas, Baltasar Inequalities for the derivatives of a polynomial. (Spanish. English summary) **89i:30003**

— Regularization of sequences. (Spanish. English summary) **89j:30050**

Stadtmüller, Ulrich *see* **Gawronski, Wolfgang, 89g:30009**

Van Assche, Walter Asymptotic properties of orthogonal polynomials from their recurrence formula. II. **89h:33017**

Yoshino, Sayaka Analytic properties of the recursion method in the presence of band gaps. **89c:42030**

30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

Atadzhanov, B. A. An integral of Cauchy type for quasianalytic functions on closed Riemann surfaces. (Russian) (Not in MR)

Avetisyan, A. E. Integral transform of growing functions with kernel $E_\rho(z;\mu)$ and a theorem of Wiener-Paley type. (Russian. Armenian summary) **89e:30069**

Bustamante González, Jorge *see* **González Diéguez, Belarmino, 89c:30106**

Emel'yanov, A. P. Justification of a passage to the limit in the plane theory of elasticity. (Russian. English summary) **89g:30074**

Gadzhiev, A. D. *see* **Ibragimov, I. I., (89f:30003)**

González Diéguez, Belarmino (*with* Bustamante González, Jorge) Some properties of the singular integral of Cauchy type. (Spanish. English summary) **89c:30106**

Gustafsson, Björn Application of half-order differentials on Riemann surfaces to quadrature identities for arc-length. **89b:30032**

Hibschweiler, R. A. (*with* MacGregor, T. H.) Closure properties of families of Cauchy-Stieltjes transforms. **89g:30075**

Ibragimov, I. I. (*with* Gadzhiev, A. D.) Rate of convergence of singular integrals of I. I. Privalov type in the complex domain [Reviewed in RZhMat 1978:3 B87]. (Russian) (*see* **89f:30003**)

Israfilov, D. M. An integral representation in domains with a BL boundary. (Russian) (*see* **89j:00036**)

Komatu, Yûsaku On the range of values of analytic functions relating to a family of integral operators. (Serbo-Croatian summary) **89g:30076**

Kuusalo, Tapani A Green formula with multiplicities. **89m:30083**

MacGregor, T. H. *see* **Hibschweiler, R. A., 89g:30075**

Musaev, K. M. Integrals of Cauchy-Stieltjes type for generalized analytic functions [Reviewed in RZhMat 1978:3 B258]. (Russian) (*see* **89f:30003**)

Pykhteev, G. N. ★ Методы вычисления интегралов типа Коши. Точные методы. (Russian) [Methods for calculating integrals of Cauchy type. Exact methods] (Not in MR)

Saitoh, Saburou Cauchy integrals for L_2 functions. **89m:30084**

Sakai, Makoto An index theorem on singular points and cusps of quadrature domains. **89i:30051**

Salimov, T. S. On the behavior of the singular Cauchy integral in Hölder spaces. (Russian) **89f:30065**

Wang, Jian Zhong^2 Cauchy principal value integrals with infinitely many points of discontinuity of the kernel density. (Chinese) **89g:30077**

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Dzhrbashyan, M. M. Survey of some achievements of Armenian mathematicians in the theory of integral representations and factorization of analytic functions. (Serbo-Croatian summary) **89g:30063**

Dzhuraev, O. Efficient construction of a field of algebraic functions corresponding to a four-sheeted covering of a sphere, and applications. (Russian) **89c:14042**

Iwaniec, Tadeusz Hilbert transform in the complex plane and area inequalities for certain quadratic differentials. **89a:42025**

Lü, De A class of singular integral equations on a bounded two-dimensional region. (Chinese. English summary) **89g:45013**

Milovanović, Gradimir V. Some applications of the polynomials orthogonal on the semicircle. **89e:65027**

Mirianashvili, M. G. Application of a singular kernel in error estimates for the solution of some boundary value problems for close domains. (Russian. English and Georgian summaries) **89d:31007**

Musaev, K. M. Boundedness of the Cauchy singular integral in a class of generalized analytic functions. (Russian. English and Azerbaijani summaries) **89e:30084**

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Reade, Maxwell O. (*with* Todorov, P. G.) Extremal problems for certain Nevanlinna analytic functions. **89e:30050**

Todorov, P. G. *see* **Reade, Maxwell O., 89e:30050**

Twomey, J. B. Tangential boundary behaviour of the Cauchy integral. **89e:30057**

Varlamov, V. V. A method for obtaining asymptotic expansions of Cauchy-type integrals. (Russian) **89c:30105**

Zhdanov, M. S. ★ Integral transforms in geophysics. **89a:86008**

30E25 Boundary value problems [see also 45Exx]

Alekhno, A. G. The Riemann homogeneous boundary value problem with an infinite index of arbitrary power order. (Russian. English summary) **89k:30039**

Andriyanov, V. L. An application of boundary value problems in the theory of analytic functions. (Russian) (*see* **89j:00036**)

Betancourt Núñez, Godehardo A. *see* **González Diéguez, Belarmino, 89j:30055**

Cherednichenko, V. G. (*with* Verevkina, G. V.) On the solvability of the generalized Riemann boundary value problem for analytic functions. (Russian) **89e:30070**

Didenko, V. D. A direct method for solving the Hilbert boundary value problem. (Russian) **89a:30032**

Freidkin, S. A. The nonhomogeneous boundary value problem with a constant coefficient on an infinite set of intervals. **89m:30085**

Globevnik, Josip Testing analyticity on rotation invariant families of curves. **89g:30078**

Gogonea, Sorin Sur la détermination des fonctions analytiques par des conditions de raccordement et conditions de type Volterra. [On the determination of analytic functions by joining conditions and conditions of Volterra type] **89a:30033**

González Diéguez, Belarmino (*with* Betancourt Núñez, Godehardo A.) A generalized Riemann problem on nonsmooth curves. (Spanish. English summary) **89j:30055**

Huang, Hai Yang *see* **Liu, Lai Fu, 89a:30034**

Huang, Nian Ning An extended Riemann problem method with zeros. (Chinese. English summary) **89j:30056**

Kats, B. A. The Riemann boundary value problem with power shift. (Russian) **89b:30033**

Kheĭfits, A. I. A case of the Riemann boundary value problem with infinite index. (Russian) **89e:30071**

Kovalev, V. F. The Riemann boundary value problem for analytic functions of a biharmonic variable. (Russian) **89h:30055**

Kvitko, A. N. A boundary value problem with shift for a Carleman system on a Riemann surface with boundary. (Russian) **89h:30056**

— The discontinuous Hilbert problem for an elliptic system of first-order differential equations on a Riemann surface. (Russian) **89b:30034**

Lalayan, A. S. (*with* Nersesyan, A. B.) Conditions for the solvability of a conjugation problem for a pair of piecewise analytic functions. (Russian. English and Armenian summaries) **89e:30072**

Li, Zheng Wu Some degenerate cases in the generalized Hilbert problem with two shifts. (Chinese) (Not in MR)

Liu, Lai Fu (*with* Huang, Hai Yang) Essential boundary value problems of analytic functions with two shifts. (Chinese. English summary) **89a:30034**

Lomadze, N. B. Application of a method of Plemelj to the solution of the Riemann-Hilbert boundary value problem for some unknown functions. (Russian) **89b:30035**

Lu, Jian Ke ★ Jiexi hanshu bianzhi wenti. (Chinese) [Boundary value problems for analytic functions] **89b:30036**

— The Hilbert boundary problem of doubly periodic analytic functions. **89k:30040**

Lupu, Mircea Solution des problèmes de Riemann ou de Hilbert ayant des singularités données pour le demi-plan. (Romanian summary) [Solution of Riemann or Hilbert problems with given singularities in the half-plane] **89e:30073**

Makatsariya, G. T. On a boundary value problem. (Russian. English and Georgian summaries) **89a:30035**

Mandzhavidze, G. F. (*with* Ngô Văn Lu'ọ'c) Problem V for generalized analytic vectors. (Russian. English and Georgian summaries) **89e:30074**

Mederos, Otilio B. Equivalence of the Carleman problem in the strip and the Haseman problem in the half-plane. (Spanish) (*see* **89k:00009**)

Mishchishin, I. I. Solution of a homogeneous conjugation problem. (Russian) (*see* **89f:00011**)

Monakhov, V. N. (*with* Semenko, E. V.) Well-posedness of boundary value problems of conjugation of analytic functions on a compact Riemann surface. (Russian) **89j:30057**

Nersesyan, A. B. *see* **Lalayan, A. S., 89e:30072**

Ngô Văn Lu'ọ'c Differential boundary value problems of general type for generalized analytic vectors. (Russian. English and Georgian summaries) **89m:30086**

— *see also* **Mandzhavidze, G. F., 89e:30074**

Pal'tsev, B. V. Conditions ensuring continuity up to the contour and the power behavior in neighborhoods of nodes of the solutions of a homogeneous linear conjugation problem with a piecewise continuous matrix coefficient. **89e:30075**

Plaksa, S. A. The Riemann boundary value problem with an oscillating coefficient on some classes of closed Jordan rectifiable curves. (Russian) **89d:30048**

— The Riemann boundary value problem in a semicontinuous formulation, and singular integral equations on a rectifiable curve. (Russian) **89e:30076**

Purtseladze, Z. Z. On some solutions of the nonstandard Haseman boundary value problem. (Russian) **89b:30037**
Radomir, I. On the univalence of the solution of inverse boundary problem. (Romanian summary) **89c:30107**
Semenko, E. V. *see* **Monakhov, V. N., 89j:30057**
Soldatov, A. P. A normality condition for general nonlocal problems. (Russian) (*see* **89j:00030**)
— A general boundary value problem of function theory. **89k:30041**
Spitkovskiĭ, I. M. The vector Riemann boundary value problem with infinite deficient numbers and the factorization of matrix functions connected with it. **89j:30058**
Ulitko, A. F. A Hilbert boundary value problem that is generalized in the sense of I. N. Vekua in three-dimensional elasticity theory. (Russian) (*see* **89j:00031**)
Verevkina, G. V. *see* **Cherednichenko, V. G., 89e:30070**
Wang, Chuan Rong The solution of a general Riemann boundary value problem with conjugation. (Chinese) **89b:30038**
Wang, Jian Zhong^2 The Riemann problem with infinitely many points of discontinuity on the real axis. (Chinese) **89j:30059**
Wegert, E. Topological methods for strongly nonlinear Riemann-Hilbert problems for holomorphic functions. **89k:30042**
— Nonlinear Riemann-Hilbert problems and their relationship to extremal problems for holomorphic functions. **89m:30087**
Wen, Guo Chun ★ Gongxing yingshe yu bianzhi wenti. (Chinese) [Conformal mappings and boundary value problems] **89j:30060**
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Yuan, Yi Rang The generalized Carleman problem for multiply connect [connected] regions. **89k:30043**
Zelenkov, G. A. The Riemann boundary value problem with infinite index and the asymptotics of entire and subharmonic functions. (Russian) (*see* **89b:00008**)
Zheng, Ke Doubly periodic Riemann boundary value problems of nonnormal type. (Chinese. English summary) **89h:30057**
Zhuravleva, M. I. A Riemann boundary value problem with infinite index. (Russian) (*see* **89c:00018**)
Zou, Zi De An integral method for the Haseman boundary value problem. (Chinese. English summary) **89m:30088**

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Akhmedov, R. Boundary value problems for the equation $2\overline{z}\partial_{\overline{z}}w - (\lambda\exp(\mathrm{in}\,\varphi) + b(z))\overline{w} =$ 0. (Russian. Tajiki summary) **89k:35073**
Aksent′ev, L. A. *see* **Avkhadiev, F. G.; et al., 89c:30022**
Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**
Atadzhanov, B. A. An integral of Cauchy type for quasianalytic functions on closed Riemann surfaces. (Russian) (Not in MR)
Avkhadiev, F. G. (*with* Aksent′ev, L. A.; Elizarov, A. M.) Sufficient conditions for the finite-valence of analytic functions, and their applications. (Russian) **89c:30022**
Bultheel, Adhemar *see* **Van Barel, M., 89h:15020**
Dunduchenko, Leonid Omelyanovich On the mapping of a circular multiply connected domain onto a plane and a disk with cuts along finite rectilinear segments. **89i:30005**
Elizarov, A. M. *see* **Avkhadiev, F. G.; et al., 89c:30022**
Gilliam, David (*with* Mair, Bernard; Martin, Clyde Franklin) A convolution method for inverse heat conduction problems. **89j:80010**
Ioakimidis, Nikolaos I. A unified Riemann-Hilbert approach to the analytical determination of zeros of sectionally analytic functions. **89h:30006**
Ishida, Hisashi Boundary values of HBD-functions on harmonic boundaries of Riemann surfaces. **89k:30045**
Kapishev, G. K. A general boundary value problem for a generalized analytic vector-valued function in fractional spaces. (Russian. Kazakh summary) **89h:30064**
Krushevskiĭ, E. A. Solution of linear functional equations with several shifts into the domain. (Russian) **89d:39007**
Litvinchuk, G. S. (*with* Spitkovskiĭ, I. M.) ★ Factorization of measurable matrix functions. **89e:47022**
Lü, De Strongly nonlinear Riemann boundary value problems. (Chinese. English summary) **89k:35191**
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Millar, R. F. Application of the Schwarz function to boundary problems for Laplace's equation. **89c:35032**
Nakajima, Nobuharu Phase retrieval using the logarithmic Hilbert transform and the Fourier-series expansion. **89e:42008**
Ovcharenko, O. V. An analytic signal and boundary value problems of analytic functions. (Russian) (Not in MR)
Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**
Popov, G. Ya. *see* **Antipov, Yu. A.; et al., 89h:73015**
Rodin, Yu. L. ★ Generalized analytic functions on Riemann surfaces. **89j:30065**
— The Riemann boundary value problem on closed Riemann surfaces and integrable systems. **89g:58204**
Saidov, K. On the Riemann-Hilbert problem for the degenerate generalized Moisil-Teodorescu system. (Russian) **89a:35074**
Shukurov, Kh. R. Boundary value problems for a degenerate elliptic system. (Russian) **89a:35095**
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Simonenko, I. B. (*with* Trinh Ngoc Minh) ★ Локальный метод в теории одномерных сингулярных интегральных уравнений с кусочно-непрерывными коэффициентами. Нетеровость. (Russian) [A local method in the theory of one-dimensional singular integral equations with piecewise continuous coefficients. Noethericity] **89h:45006**
Spitkovskiĭ, I. M. *see* **Litvinchuk, G. S., 89e:47022**
Sukhanov, V. V. An inverse problem for a selfadjoint differential operator on the axis. (Russian) **89k:34036**
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Van Barel, M. (*with* Bultheel, Adhemar) An algebraic method to solve the minimal partial realization problem for scalar sequences. **89h:15020**
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Yatsko, S. I. *see* **Antipov, Yu. A.; et al., 89h:73015**

30E99 None of the above, but in this section

Kasana, Harvir S. An existence theorem for the proximate order of analytic functions. **89c:30108**

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Aliev, T. G. (*with* Tamrazov, P. M.) Contour-solid theorems for meromorphic functions allowing for zeros and nonunivalence. (Russian) **89c:30073**
Dodunova, L. K. On the overconvergence of universal series. **89d:30003**
Grinberg, Eric L. A boundary analogue of Morera's theorem in the unit ball of $\mathbf{C}^n$. **89b:32005**
Hayman, Walter Functions mapping rationals on rationals. **89a:30027**
Johansson, Kurt On Szegő's asymptotic formula for Toeplitz determinants and generalizations. (French summary) **89m:47021**
Rochberg, Richard A generalization of Szegő's theorem and the power theorem for complex interpolation. **89f:46136**
Rodríguez-Salinas, Baltasar Functions associated with a subset of the complex plane. (Spanish. English summary) **89f:30005**
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30Fxx Riemann surfaces

Items with secondary classifications in .30Fxx

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Porter, R. Michael Topography, topology and Riemann surfaces. (Spanish) (*see* **89k:00008**)

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Abikoff, William Kleinian groups—geometrically finite and geometrically perverse. **89j:30061**
Bujalance, J. A. Topological types of Klein surfaces with a maximum order automorphism. **89g:30079a**
— Corrigendum to the paper: "Topological types of Klein surfaces with a maximum order automorphism". **89g:30079b**
Dzhuraev, O. Construction of the equation of a Riemann surface that is given in the form of a three-sheeted covering surface of a sphere. (Russian) **89i:30052**
Fisher, Yuval (*with* Hubbard, John H.; Wittner, Ben S.) A proof of the uniformization theorem for arbitrary plane domains. **89k:30044**
Forelli, Frank Two-sheeted coverings of the disc. **89g:30080**
Haas, Andrew Howard (*with* Susskind, Perry) The geometry of the hyperelliptic involution in genus two. **89e:30078**
Hempel, Joachim A. On the uniformization of the *n*-punctured sphere. **89c:30109**
Hubbard, John H. *see* **Fisher, Yuval; et al., 89k:30044**
Kimura, Hideyuki *see* **Kuribayashi, Akikazu, 89g:30081a** *and* **89g:30081b**
Kra, Irwin Accessory parameters for punctured spheres. **89j:30062**
Kuribayashi, Akikazu (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. (Japanese. English summary) **89g:30081a**
— (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. II. (Japanese. English summary) **89g:30081b**
Martens, Henrik H. Observations on morphisms of closed Riemann surfaces. II. **89f:30066**
McOwen, Robert C. Point singularities and conformal metrics on Riemann surfaces. **89m:30089**
Migliorini, Luca On the compactification of Riemann surfaces. (Italian) **89e:30079**
Miyahara, Yasushi On local deformations of a Banach space of analytic functions on a Riemann surface. **89i:30053**
Riera, Gonzalo (*with* Rodriguez, Rubi) Uniformization of surfaces of genus two with automorphisms. **89m:30090**
Rodriguez, Rubi *see* **Riera, Gonzalo, 89m:30090**
Sakurai, Kouichi (*with* Suzuki, Masakazu) Equivalence problem and automorphisms of some abelian branched coverings of the Riemann sphere. **89j:30063**
Susskind, Perry *see* **Haas, Andrew Howard, 89e:30078**
Suzuki, Masakazu *see* **Sakurai, Kouichi, 89j:30063**
Wittner, Ben S. *see* **Fisher, Yuval; et al., 89k:30044**
Zverovich, È. I. An algebraic method for constructing the basic functional of a Riemann surface that is given in the form of a finite-sheeted covering of a sphere. (Russian) **89c:30110**

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Bobenko, A. I. (*with* Kubenskiĭ, D. A.) Qualitative analysis and calculations of finite-gap solutions of the Korteweg-de Vries equation. An automorphic approach. (Russian. English summary) **89e:58057**
Bujalance, E. (*with* Etayo Gordejuela, José Javier) Large automorphism groups of hyperelliptic Klein surfaces. **89i:20072**
Conder, Marston (*with* McKay, John) A necessary condition for transitivity of a finite permutation group. **89b:20007**
— Maximal automorphism groups of symmetric Riemann surfaces with small genus. **89c:20049**
Etayo Gordejuela, José Javier *see* **Bujalance, E., 89i:20072**

Jenkins, James A. (*with* Suita, Nobuyuki) On analytic maps of plane domains. **89c:30017**
Kita, Michitake On the number of parameters of linear differential equations with regular singularities on a compact Riemann surface. **89c:32026**
Kubenskii, D. A. *see* **Bobenko, A. I., 89e:58057**
McKay, John *see* **Conder, Marston, 89b:20007**
Monakhov, V. N. (*with* Semenko, E. V.) Well-posedness of boundary value problems of conjugation of analytic functions on a compact Riemann surface. (Russian) **89j:30057**
Nag, Subhashis ★ The complex analytic theory of Teichmüller spaces. **89f:32040**
Sato, Hiroki On a paper of Zarrow. **89h:30062**
— Classical Schottky groups of real type of genus two. I. **89e:32031**
Semenko, E. V. *see* **Monakhov, V. N., 89j:30057**
Seppälä, Mika (*with* Sorvali, T.) Parametrization of Teichmüller spaces by geodesic length functions. **89m:32040**
— Complex algebraic curves with real moduli. **89j:14021**
Simha, R. R. The Behnke-Stein theorem for open Riemann surfaces. **89j:30053**
Sipe, Patricia L. Families of compact Riemann surfaces which do not admit *n*th roots. **89j:32029**
Sorvali, T. *see* **Seppälä, Mika, 89m:32040**
Suita, Nobuyuki *see* **Jenkins, James A., 89c:30017**
Tretkoff, Marvin Picard-Fuchs differential equations for the quadratic periods of abelian integrals of the first kind. **89b:14013**
Yang, Kichoon Meromorphic functions on a compact Riemann surface and associated complete minimal surfaces. **89h:53029**
Yoshida, Masaaki The Schwarz program. (Japanese) **89m:34009**

30F15 Harmonic functions on Riemann surfaces

Bagby, Thomas (*with* Gauthier, Paul M.) Approximation by harmonic functions on closed subsets of Riemann surfaces. **89j:30064**
— A Runge theorem for harmonic functions on closed subsets of Riemann surfaces. **89c:30111**
Gauthier, Paul M. *see* **Bagby, Thomas, 89j:30064**
Ishida, Hisashi Boundary values of HBD-functions on harmonic boundaries of Riemann surfaces. **89k:30045**

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Bost, J.-B. Fonctions de Green-Arakelov, fonctions thêta et courbes de genre 2. (English summary) [Green-Arakelov functions, theta functions and curves of genus 2] **89b:11051**
Glasner, Moses Dirichlet principle for the Royden compactification. **89e:30080**
Gotoh, Yasuhiro On some extension property for BMO functions on Riemann surfaces. **89k:30032**
Kvitko, A. N. A boundary value problem with shift for a Carleman system on a Riemann surface with boundary. (Russian) **89h:30056**
Sheretov, V. G. Quasiconformal extremals of smooth functionals and of an energy integral on Riemann surfaces. **89m:30046**

30F20 Classification theory of Riemann surfaces

Farkas, H. M. Unramified coverings of hyperelliptic Riemann surfaces. **89c:30112**
Järvi, Pentti On the continuation of meromorphic functions. **89k:30046**
Jussila, Tapani On extensions of Riemann surfaces. **89g:30082**
Liu, Jie[1] The Teichmüller metric and a problem of T. Sorvali. (Chinese. English summary) **89k:30047**
Shiba, Masakazu The period matrices of compact continuations of an open Riemann surface of finite genus. **89k:30048**

Items with secondary classifications in 30F20

Ballico, Edoardo On the projections of canonical curves. **89i:14017**
Glasner, Moses (*with* Nakai, Mitsuru) Singular points on the Royden harmonic boundary. **89b:30039**
Harris, Joseph Daniel Curves and their moduli. **89h:14023**
Horiuchi, Ryutaro *see* **Kato, Takao, 89d:14045**
Kato, Takao (*with* Horiuchi, Ryutaro) Weierstrass gap sequences at the ramification points of trigonal Riemann surfaces. **89d:14045**
Nakai, Mitsuru *see* **Glasner, Moses, 89b:30039**
Penner, R. C. The Schottky problem on pants. **89k:30009**

30F25 Ideal boundary theory

Bikchantaev, I. A. Convergence of Cauchy kernels for generalized analytic functions on an open Riemann surface. (Russian) **89f:30067**
Glasner, Moses (*with* Nakai, Mitsuru) Singular points on the Royden harmonic boundary. **89b:30039**
— Dirichlet principle for the Royden compactification. **89e:30080**
Nakai, Mitsuru *see* **Glasner, Moses, 89b:30039**
Pal′tsev, B. V. Canonical matrix of solutions of a linear conjugation problem with a piecewise continuous matrix coefficient on an elementary piecewise smooth curve. **89d:30049**

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Bikchantaev, I. A. Differential boundary value problems for first-order elliptic systems on Riemann surfaces. (Russian) **89h:35104**
Earle, Clifford J. (*with* McMullen, Curt) Quasiconformal isotopies. **89h:30028**
McMullen, Curt *see* **Earle, Clifford J., 89h:30028**

30F30 Differentials on Riemann surfaces

Kimura, Hideyuki *see* **Kuribayashi, Akikazu, 89h:30058**
Kuribayashi, Akikazu (*with* Kimura, Hideyuki) Remarks on the existence theorem. **89h:30058**
Kusunoki, Yukio Integrable holomorphic quadratic differentials with simple zeros. **89m:30091**
Kuz′mina, G. V. Extremal properties of quadratic differentials with trajectories that are asymptotically similar to logarithmic spirals. (Russian) **89e:30081**
Taniguchi, Masahiko On the modulus of the free homotopy class of a simple closed curve on an arbitrary Riemann surface. **89b:30040**
— Variational formulas on arbitrary Riemann surfaces under pinching deformation. **89f:30068**

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Carlip, Steven Quadratic differentials and closed string vertices. **89j:81166**
Dzhuraev, O. Construction of the equation of a Riemann surface that is given in the form o a three-sheeted covering surface of a sphere. (Russian) **89i:30052**
Gustafsson, Björn Application of half-order differentials on Riemann surfaces to quadratur identities for arc-length. **89b:30032**
Harris, Bruno An analytic function and iterated integrals. **89c:11080**
Iwaniec, Tadeusz Hilbert transform in the complex plane and area inequalities for certain quadratic differentials. **89a:42025**
Plá, Héctor Twisted differential equations with regular singular points. (Spanish. English summary) **89e:14009**
Rodin, Yu. L. ★ Generalized analytic functions on Riemann surfaces. **89j:30065**
Taniguchi, Masahiko Supplements to my previous papers; a refinement and applications: "Continuity of certain differentials on finitely augmented Teichmüller spaces and variational formulas of Schiffer-Spencer's type" [Tôhoku Math. J. (2) **38** (1986), no. 2, 281–295; MR 88f:32064] and "Variational formulas on arbitrary Riemann surfaces unde pinching deformation" [J. Math. Kyoto Univ. 27 (1987), no. 3, 507–530; MR 89f:30068]. **89i:32049**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 32Gxx, 32Nxx]

Agard, Stephen Mostow rigidity on the line: a survey. **89h:30059**
Aulaskari, Rauno Criteria for automorphic functions to belong to $\mathscr{B}_0(\Gamma)$ and $N_0(\Gamma)$. **89a:30036**
— (*with* Lappan, Peter) The uniform continuity of the modulus of rotation automorphic functions. **89f:30069**
— (*with* Lappan, Peter) A criterion for a rotation automorphic function to be normal. **89g:30083**
Horiuchi, Ryutaro (*with* Tanimoto, Tomihiko) Fixed points of automorphisms of compact Riemann surfaces and higher-order Weierstrass points. **89i:30054**
Kravtsev, S. V. Some properties of automorphic functions of rotation that are connected with the rate of growth of their spherical Ahlfors-Shimizu characteristic. (Russian) **89a:30037**
Lappan, Peter *see* **Aulaskari, Rauno, 89f:30069** *and* **89g:30083**
Morosawa, Shunsuke Limit points for infinitely generated Fuchsian groups. **89m:30092**
— A property of transitive points under Fuchsian groups. **89e:30082**
Nakada, Masami The exponent of convergence of Poincaré series associated with some discontinuous groups. **89m:30093**
Nakanishi, Toshihiro A theorem on the outradii of Teichmüller spaces. **89e:30083**
Nicholls, Peter J. The limit set of a discrete group of hyperbolic motions. **89h:30060**
Tanimoto, Tomihiko *see* **Horiuchi, Ryutaro, 89i:30054**

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Arnaud, Bertrand Carré symétrique d'une forme primitive. (English summary) [The symmetric square of a primitive form] **89h:11019**
Beardon, A. F. Fuchsian groups and *n*th roots of parabolic generators. **89m:11039**
Beauville, Arnaud Le problème de Schottky et la conjecture de Novikov. [The Schottky problem and Novikov's conjecture] **89e:14029**
Bujalance, J. A. Normal subgroup of even index in an NEC group. **89j:20056**
— Orders of the automorphisms of bordered Klein surfaces of topological genus 1. (Spanish. English summary) **89m:20054**
Earle, Clifford J. Some explicit real analytic trivializations of the Teichmüller curves. **89i:32045**
Gilman, Jane A characterization of finite subgroups of the mapping-class group. **89c:57001**
— On the existence of elliptics in subgroups of $\mathrm{PSL}(2, \mathbf{R})$: a graphical picture. **89j:11037**
Harris, Bruno An analytic function and iterated integrals. **89c:11080**
Hodgkin, Luke Super Teichmüller spaces: punctures and elliptic points. **89m:32039**
Kra, Irwin Accessory parameters for punctured spheres. **89j:30062**
Schellekens, A. N. Multiloop modular invariance of the covariant lattice construction of fermionic strings. **89d:81112**
Stopple, Jeffrey A reciprocity law for prime geodesics. **89j:11038**
Tukia, Pekka Homeomorphic conjugates of Fuchsian groups. **89m:30047**
Venkov, A. B. Examples of the effective solution of the Riemann-Hilbert problem on the reconstruction of a differential equation from a monodromy group in the framework of the theory of automorphic functions. (Russian) **89g:11037**
Yoshida, Eiji On an application of Zagier's method in the theory of Selberg's trace formula. **89m:11054**
— Selberg trace formula for a certain group generated by $\mathrm{PSL}(2, \mathbf{Z}[i])$ and a reflection. **89m:11055**

30F40 Kleinian groups [see also 20H10]

Inada, Tomio An elementary proof of a theorem of Margulis for Kleinian groups. **89m:30094**
Jørgensen, T. (*with* Marden, A.) Generic fundamental polyhedra for Kleinian groups. **89h:30061**
Marden, A. *see* **Jørgensen, T., 89h:30061**
Martin, Gaven J. (*with* Tukia, Pekka) Convergence and Möbius groups. **89m:30095**
Maskit, Bernard Canonical domains on Riemann surfaces. **89m:30096**
Sato, Hiroki On a paper of Zarrow. **89h:30062**

Tukia, Pekka *see* **Martin, Gaven J., 89m:30095**

Items with secondary classifications in 30F40

Abikoff, William Kleinian groups—geometrically finite and geometrically perverse. **89j:30061**
Albers, Donald J. (*with* Reid, Constance) An interview with Lipman Bers. **89g:01043**
Apanasov, B. N. Thurston's bends and geometric deformations of conformal structures. **89c:32057**
— The effect of dimension 4 in Aleksandrov's problem of filling a space by polyhedra. **89d:52029**
(Bers, Lipman) *see* **Albers, Donald J., 89g:01043**
Bonahon, Francis (*with* Otal, Jean-Pierre) Variétés hyperboliques à géodésiques arbitrairement courtes. (English summary) [Hyperbolic manifolds with arbitrarily short geodesics] **89g:57012**
Davies, E. B. (*with* Mandouvalos, N.) Heat kernel bounds on hyperbolic space and Kleinian groups. **89i:58137**
Gehring, F. W. (*with* Martin, Gaven J.) Discrete convergence groups. **89a:30014**
Gerritzen, L. (*with* Herrlich, F.) The extended Schottky space. **89h:32043**
Herrlich, F. *see* **Gerritzen, L., 89h:32043**
Kra, Irwin Families of univalent functions and Kleinian groups. **89d:30008**
Mandouvalos, N. Spectral theory and Eisenstein series for Kleinian groups. **89h:58201**
— *see also* **Davies, E. B., 89i:58137**
Martin, Gaven J. *see* **Gehring, F. W., 89a:30014**
Maskit, Bernard Some special 2-generator Kleinian groups. **89i:20073**
Otal, Jean-Pierre *see* **Bonahon, Francis, 89g:57012**
Patterson, S. J. Lectures on measures on limit sets of Kleinian groups. **89b:58122**
Reid, Constance *see* **Albers, Donald J., 89g:01043**
Sato, Hiroki Classical Schottky groups of real type of genus two. I. **89e:32031**
Schoen, Richard M. (*with* Yau, S.-T.) Conformally flat manifolds, Kleinian groups and scalar curvature. **89c:58139**
Waterman, P. L. Purely elliptic Möbius groups. **89i:51020**
Yau, S.-T. *see* **Schoen, Richard M., 89c:58139**
Zhou, Zhan Two theorems of three-dimensional elliptic Möbius groups. (Chinese summary) **89i:51021**

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Bers, Lipman *see* **Albers, Donald J., 89g:01043**

30F99 None of the above, but in this section

Boivin, André T-invariant algebras on Riemann surfaces. **89c:30113**
Grudskiĭ, I. M. Construction of intrinsic coordinates on composite Riemann surfaces. (Russian) **89c:30114**
Samokhin, M. V. Some properties of classes of analytic functions on Parreau-Widom surfaces. (Not in MR)
Yamada, Akira Bounded analytic functions and metrics of constant curvature on Riemann surfaces. **89m:30097**

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Andreian Cazacu, Cabiria Interior transformations between Klein surfaces. **89g:30084**
Bershadskiĭ, M. A. Off-shell string amplitudes and singular states in bosonic string theory. **89b:81174**
Buser, P. (*with* Semmler, K.-D.) The geometry and spectrum of the one-holed torus. **89k:58286**
Earle, Clifford J. (*with* Nag, Subhashis) Conformally natural reflections in Jordan curves with applications to Teichmüller spaces. **89i:30019**
Etayo Gordejuela, José Javier (*with* Martínez, Ernesto) Hyperbolic polygons and NEC groups. **89m:32037**
Farkas, H. M. Remarks on Clifford indices. **89j:14018**
Gaĭda, Yu. R. Monodromy groups of mappings of a Riemann surface and compositions of meromorphic functions. (Russian. English summary) **89k:30023**
Gamelin, T. W. (*with* Hayashi, Mikihiro) The algebra of bounded analytic functions on a Riemann surface. **89j:46052**
Hayashi, Mikihiro *see* **Gamelin, T. W., 89j:46052**
Hou, Ji Xin Periodic points of analytical dynamical systems on hyperbolic Riemann surfaces. (Chinese. English summary) **89j:58109**
Ivanov, N. V. Projective structures, flat bundles and Kähler metrics on moduli spaces. **89b:32026**
Katsuda, Atsushi (*with* Sunada, Toshikazu) Homology and closed geodesics in a compact Riemann surface. **89e:58093**
Klein, Manfred (*with* Ramspott, Karl Josef) Ein Transformationssatz für Idealbasen holomorpher Funktionen. [A transformation theorem for ideal bases of holomorphic functions] **89m:30100**
Kvitko, A. N. The discontinuous Hilbert problem for an elliptic system of first-order differential equations on a Riemann surface. (Russian) **89b:30034**
Li, Zhong Quasiconformal mappings of Riemann surfaces of infinite type. (Chinese) **89m:30044**
Martínez, Ernesto *see* **Etayo Gordejuela, José Javier, 89m:32037**
Minda, David Inequalities for the hyperbolic metric and applications to geometric function theory. **89d:30029**
Nag, Subhashis *see* **Earle, Clifford J., 89i:30019**
Natanzon, S. M. Real meromorphic functions on real algebraic curves. **89c:14048**
Ramspott, Karl Josef *see* **Klein, Manfred, 89m:30100**
emmler, K.-D. *see* **Buser, P., 89k:58286**
unada, Toshikazu *see* **Katsuda, Atsushi, 89e:58093**
Wolpert, Scott A. The geometry of deformations of a Riemann surface. **89f:32041**
Yamashita, Shinji The Shimizu-Ahlfors characteristic function of order p. **89j:30038**

30Gxx Generalized function theory

30G05 Non-Archimedean function theory [see also 12J25]

Escassut, Alain *see* **Sarmant-Durix, Marie Claude, 89k:30049**
Sarmant-Durix, Marie Claude (*with* Escassut, Alain) Prolongement analytique à travers un T-filtre. [Analytic continuation through a T-filter] **89k:30049**

Items with secondary classifications in 30G05

Cayford, A. H. *see* **Straus, E. G.,** (Not in MR)
Escassut, Alain Lubin-Hensel factorization for Laurent series. **89d:32039**
Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. (English summary) [Analytic open sets of an algebraic curve in rigid geometry] **89c:14032**
Straus, E. G. (*with* Cayford, A. H.) Singularities of analytic functions in a differential ring. (Not in MR)

30G10 Nonstandard function theory [see also 03H05]

Items with secondary classifications in 30G10

Akopyan, S. A. *see* **Khachatryan, I. O., 89m:30075**
Khachatryan, I. O. (*with* Akopyan, S. A.) Quasi-analytic classes of functions that are representable by integrals with Mittag-Leffler kernels. **89m:30075**
Oberguggenberger, Michael Products of distributions: nonstandard methods. (German and Russian summaries) **89k:46056**

30G15 Topological function theory

Andreian Cazacu, Cabiria Interior transformations between Klein surfaces. **89g:30084**
Cristea, Mihai A generalization of Rouché's theorem. **89d:30050**

Items with secondary classifications in 30G15

Layek, A. K. Directional cluster sets and directional essential cluster sets. **89c:30086**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

Aslanov, M. A. *see* **Musaev, K. M., 89g:30087**
Begehr, H. (*with* Gilbert, Robert P.) Pseudohyperanalytic functions. **89g:30085**
Cai, Hui Jing Plemelj formulas for generalized M-analytic functions. (Chinese. English summary) **89g:30086**
Gilbert, Robert P. *see* **Begehr, H., 89g:30085**
Goldschmidt, Bernd Representation of generalized analytic vectors in matrix form. **89d:30051**
Hoàng Đình Dung Formulas for the inversion of integral representations of some p-analytic functions and for their application. **89i:30055**
Huang, Si Xun On properties of some operators in Douglis algebra and their application to PDE. **89h:30063**
Kapishev, G. K. A general boundary value problem for a generalized analytic vector-valued function in fractional spaces. (Russian. Kazakh summary) **89h:30064**
Lü, De The skew derivative problem in hypercomplex function theory. (Chinese. English summary) **89i:30056**
Makatsariya, G. T. On singular Carleman-Vekua equations. (Russian) (*see* **89j:00031**)
Musaev, K. M. Theorems of F. Riesz type in the theory of generalized analytic functions [Reviewed in RZhMat 1982:11 B206]. (Russian) (*see* **89f:30004**)
— (*with* Aslanov, M. A.) Mean approximation of generalized analytic functions. (Russian) **89g:30087**
— Boundedness of the Cauchy singular integral in a class of generalized analytic functions. (Russian. English and Azerbaijani summaries) **89e:30084**
Renelt, H. Generalized powers in the theory of (ν, μ)-solutions. (Russian and Polish summaries) **89e:30085**
Rodin, Yu. L. ★ Generalized analytic functions on Riemann surfaces. **89j:30065**
Shynybekov, A. N. Correct extensions for a generalized Cauchy-Riemann system. (Russian) (*see* **89c:00008**)

Items with secondary classifications in 30G20

Akhmedov, R. Boundary value problems for the equation $2\overline{z}\partial_{\overline{z}}w - (\lambda \exp(\mathrm{in}\,\varphi) + b(z))\overline{w} = 0$. (Russian. Tajiki summary) **89k:35073**
Begehr, H. Randwertaufgaben für elliptische Systeme vom Haack-Vekua Typ. [Boundary value problems for elliptic systems of Haack-Vekua type] **89h:35099**
— (*with* Wen, Guo Chun) The discontinuous oblique derivative problem for nonlinear elliptic systems of first order. **89h:35100**
Bikchantaev, I. A. Differential boundary value problems for first-order elliptic systems on Riemann surfaces. (Russian) **89h:35104**
— Convergence of Cauchy kernels for generalized analytic functions on an open Riemann surface. (Russian) **89f:30067**
Buchanan, J. L. (*with* Gilbert, Robert P.) Hypermembrane shells. (*see* **89g:58004**)
Gilbert, Robert P. *see* **Buchanan, J. L.,** (**89g:58004**)
Ismaĭlov, A. Ya. (*with* Tagieva, M. A.) Rate of approximation of generalized analytic functions by partial sums of a series in generalized Faber polynomials on continua with nonzero local geometric characteristic. (Russian) (*see* **89b:41001**)
Kvitko, A. N. A boundary value problem with shift for a Carleman system on a Riemann surface with boundary. (Russian) **89h:30056**
— The discontinuous Hilbert problem for an elliptic system of first-order differential equations on a Riemann surface. (Russian) **89b:30034**
Lanckau, Eberhard A generalization of a method of I. N. Vekua for solving some linear three-dimensional differential equations. (Russian. English and Georgian summaries) **89d:35072**
Mamaturdiev, T. M. A sufficient condition for the solvability of an interpolation problem for a system of generalized analytic functions. (Russian) **89c:30091**

Mandzhavidze, G. F. (*with* Ngô Văn Lu'ọ'c) Problem V for generalized analytic vectors. (Russian. English and Georgian summaries) **89e:30074**
Mirzoev, A. Kh. On the theory of a system of mixed type with a singular line. (Russian. Tajiki summary) **89e:35111**
Mocanu, Petru T. Alpha-convex nonanalytic functions. **89f:30020**
Musaev, K. M. Integrals of Cauchy-Stieltjes type for generalized analytic functions [Reviewed in RZhMat 1978:3 B258]. (Russian) (*see* **89f:30003**)
Ngô Văn Lu'ọ'c Differential boundary value problems of general type for generalized analytic vectors. (Russian. English and Georgian summaries) **89m:30086**
— *see also* **Mandzhavidze, G. F., 89e:30074**
Rakhmatullaev, A. Kh. Solution of a uniformly elliptic quasilinear system of equations of generalized analytic functions. (Russian) **89f:35069**
Ralević, Nebojša V. Boundary value problems of Hilbert type for linear p-areolar differential equations in the form $D^n_{\bar{x}^k} f = 0$. (Serbo-Croatian summary) **89h:34006**
Soldatov, A. P. A general boundary value problem of function theory. **89k:30041**
Tagieva, M. A. *see* **Ismailov, A. Ya.**, (**89b:41001**)
Ulitko, A. F. A Hilbert boundary value problem that is generalized in the sense of I. N. Vekua in three-dimensional elasticity theory. (Russian) (*see* **89j:00031**)
Vasin, A. V. Isometries between L^p-spaces of pluriharmonic and polyanalytic functions. (Russian) **89k:46037**
Wen, Guo Chun *see* **Begehr, H., 89h:35100**
Xu, Zhen Yuan[1] Nonlinear Poincaré problems for systems of first-order elliptic equations in the plane. (Chinese. English summary) **89k:35096**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Items with secondary classifications in 30G30

Arov, D. Z. Regular and singular J-inner matrix functions and corresponding extrapolation problems. **89d:47082**
Begehr, H. Der Satz von Cauchy-Kowalewski für hyperanalytische Funktionen. (English and Russian summaries) [The theorem of Cauchy-Kovalevskaya for hyperanalytic functions] **89a:35008**
Berglez, P. Über funktionentheoretische Eigenschaften der Lösungen gewisser elliptischer Differentialgleichungen. (English and Russian summaries) [On function-theoretic properties of the solutions of certain elliptic differential equations] **89a:35044**
Ivanchenko, T. S. (*with* Sakhnovich, L. A.) Operator identities in the theory of interpolation problems. (Russian. English and Armenian summaries) **89a:47023**
— (*with* Sakhnovich, L. A.) An operator approach to V. P. Potapov's scheme for the investigation of interpolation problems. (Russian) **89d:47085**
Sakhnovich, L. A. *see* **Ivanchenko, T. S., 89a:47023** *and* **89d:47085**
Stankov, Dimcho K. On isometries of a space of bounded generalized analytic functions. **89a:46116**

30G35 Functions of hypercomplex variables and generalized variables

Bharathi, K. (*with* Nagaraj, M.) Regularity for quaternion functions of several complex variables. **89b:30041**
Constales, Denis A conjugate harmonic to the Poisson kernel in the unit ball of $\mathbf{R}^n$. **89m:30098**
Datta, Basudeb (*with* Nag, Subhashis) Zero-sets of quaternionic and octonionic analytic functions with central coefficients. **89j:30066**
Grigoryan, Souren Arshakovich The distribution of values of generalized analytic functions. **89d:30052**
Gürlebeck, Klaus (*with* Sprössig, W.) A generalized Leibniz rule and foundation of a discrete quaternionic analysis. **89e:30086**
Huang, Si Xun Generalized solutions and the pseudo-Neumann problem for second-order hypercomplex equations. (Chinese. English summary) **89i:30057**
— The properties of the T^n-operator on hypercomplex function spaces in the Douglis algebra sense. (Chinese. English summary) **89j:30067**
Karpe, R. Continuity of tricomplex and quadricomplex functions. (Czech summary) **89h:30065**
Lambert, Dominique (*with* Ronveaux, A.) Elliptic and ultrahyperbolic differential operators connected by Hurwitz transformations. **89g:30088**
Lounesto, Pertti Functions on Clifford algebras. **89j:30068**
McIntosh, Alan G. R. Clifford algebras and the double-layer potential operator. **89g:30089**
Nag, Subhashis *see* **Datta, Basudeb, 89j:30066**
Nagaraj, M. *see* **Bharathi, K., 89b:30041**
Nôno, Kiyoharu Characterization of existence regions of primitives of hyperholomorphic functions. **89d:30053**
Pertici, Donato Regular functions of several quaternionic variables. (Italian. English summary) **89m:30099**
Ronveaux, A. *see* **Lambert, Dominique, 89g:30088**
Ryan, John Clifford matrices, Cauchy Kowalewski extensions and analytic functionals. **89i:30058**
Sommen, F. Spingroups and spherical means. II. **89f:30070**
— Special functions in Clifford analysis and axial symmetry. **89c:30115**
Spitkovskiĭ, I. M. Factorization of measurable matrix-functions in classes $L_{p,\rho}$ with power weight. **89k:30050**
Sprössig, W. *see* **Gürlebeck, Klaus, 89e:30086**

Items with secondary classifications in 30G35

Georgijević, Dušan R. Radial derivatives of some analytic operator functions. **89e:47045**
Gürlebeck, Klaus (*with* Sprössig, W.) An application of quaternionic analysis to the solution of time-independent Maxwell equations and of Stokes' equation. **89h:78002**
— Interpolation and best approximation in spaces of monogenic functions. (German summary) **89h:41006**
Holbrook, John A. R. Quaternionic Fatou-Julia sets. (French summary) **89c:58061**
Imaeda, K. (*with* Tachibana, H.; Imaeda, M.; Ohta, Susumu) Solutions of the octonion wave equation and the theory of functions of an octonion variable. (Italian and Russian summaries) **89a:81044**
Imaeda, M. *see* **Imaeda, K.; et al., 89a:81044**
Inenaga, Yoshikazu (*with* Nôno, Kiyoharu; Yanagiwara, Hiroki) Quaternionic analysis in $\mathbf{C}^2$. **89m:32009**
— *see also* **Nôno, Kiyoharu, 89h:35068**
Kovalev, V. F. The Riemann boundary value problem for analytic functions of a biharmon variable. (Russian) **89h:30055**
Nôno, Kiyoharu (*with* Inenaga, Yoshikazu) On the Clifford linearization of Laplacian. **89h:35068**
— *see also* **Inenaga, Yoshikazu; et al., 89m:32009**
Ohta, Susumu *see* **Imaeda, K.; et al., 89a:81044**
Protter, M. H. Overdetermined first order elliptic systems. **89k:35072**
Sprössig, W. *see* **Gürlebeck, Klaus, 89h:78002**
Tachibana, H. *see* **Imaeda, K.; et al., 89a:81044**
Xu, Zhen Yuan[1] Nonlinear Poincaré problems for systems of first-order elliptic equations i the plane. (Chinese. English summary) **89k:35096**
Yanagiwara, Hiroki *see* **Inenaga, Yoshikazu; et al., 89m:32009**

30G99 None of the above, but in this section

Dimitrovski, Dragan (*with* Ilievski, Borko) L'équation différentielle aréolaire analytique. (Serbo-Croatian summary) [An analytic areolar differential equation] **89h:30066**
Ilievski, Borko *see* **Dimitrovski, Dragan, 89h:30066**

Items with secondary classifications in 30G99

Fuglede, Bent Finely holomorphic functions and finely harmonic morphisms. **89c:31001**
Lopachëv, V. A. (*with* Plotkin, A. I.) Isometric mappings in L^p-spaces of polyanalytic functions. (Russian) **89k:47046**
Plotkin, A. I. *see* **Lopachëv, V. A., 89k:47046**
Tarkhanov, N. N. A remark on the Moisil-Teodorescu system. (Russian) **89h:35103**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Cayford, A. H. *see* **Straus, E. G.**, (Not in MR)
Epifanov, O. V. Equations of convolution type in a complex domain. (Russian) (*see* **89j:00036**)
Fisher, S. The Möbius group and invariant spaces of analytic functions. **89k:30051**
Ibragimov, I. I. (*with* Nagnibida, N. I.) Multiple completeness and the property of being a basis of systems of analytic functions [Reviewed in RZhMat 1982:11 B115]. (Russian) (*see* **89f:30004**)
Klein, Manfred (*with* Ramspott, Karl Josef) Ein Transformationssatz für Idealbasen holomorpher Funktionen. [A transformation theorem for ideal bases of holomorphic functions] **89m:30100**
Markett, C. (*with* Rosenblum, M.; Rovnyak, J.) A Plancherel theory for Newton spaces. **89a:30038**
Nagnibida, N. I. On operators commuting with multiple integration in a space of analytic functions. (Russian) **89b:30042**
— *see also* **Ibragimov, I. I.**, (**89f:30004**)
Nersesyan, Ashot A. Swiss cheese with point derivations up to a given order. (Russian. Armenian summary) **89h:30067**
Ortega, Joaquin M. On quotients of holomorphic functions in the disc with boundary regularity conditions. **89e:30087**
Ramspott, Karl Josef *see* **Klein, Manfred, 89m:30100**
Rosenblum, M. *see* **Markett, C.; et al., 89a:30038**
Rovnyak, J. Euler spaces of analytic functions. **89g:30090**
— *see also* **Markett, C.; et al., 89a:30038**
Samotij, Krzysztof A counterexample to an F. and M. Riesz-type theorem. **89f:30071**
Straus, E. G. (*with* Cayford, A. H.) Singularities of analytic functions in a differential ring (Not in MR)

Items with secondary classifications in 30H05

Ansari, Mohamad A. Weak-star generators of Z^n, $n \geq 1$, and transitive operator algebras. **89h:46075**
Arazy, J. (*with* Fisher, S.; Peetre, Jaak) Möbius invariant spaces of analytic functions. **89a:46059**
Ball, Joseph A. (*with* Helton, J. William) Shift invariant manifolds and nonlinear analytic function theory. **89m:58018**
Berndtsson, Bo $\overline{\partial}_b$ and Carleson type inequalities. **89b:32004**
Brown, Leon (*with* Korenblum, Boris) Cyclic vectors in $A^{-\infty}$. **89e:46025**
Carmona, J. J. (*with* Cufí, J.) On the distance of an analytic function to VMO. **89a:3003**
Cufí, J. *see* **Carmona, J. J., 89a:30030**
Danikas, N. On the integrals of BMOA functions. **89f:30056**
Escassut, Alain *see* **Sarmant-Durix, Marie Claude, 89k:30049**
Faour, N. A factorization theorem for Bergman spaces. **89c:46054**
Fernández, J. L. A boundedness theorem for L^1/H^1_0. **89i:30043**
Fisher, S. *see* **Arazy, J.; et al., 89a:46059**
Gamelin, T. W. (*with* Hayashi, Mikihiro) The algebra of bounded analytic functions on a Riemann surface. **89j:46052**
Gorgula, V. I. (*with* Nagnibida, N. I.) Equivalence of operations of multiple integration in analytic spaces. (Ukrainian. Russian summary) **89e:47046**
Gorkin, Pamela (*with* Hedenmalm, Håkan; Mortini, Raymond) A Beurling-Rudin theoren for H^∞. **89a:46114**
Hasumi, Morisuke (*with* Kataoka, Saburô) Remarks on Hardy-Orlicz classes. **89k:46034**
Hayashi, Mikihiro *see* **Gamelin, T. W., 89j:46052**
Hedenmalm, Håkan Bounded analytic functions and closed ideals. **89a:46115**
— *see also* **Gorkin, Pamela; et al., 89a:46114**

Helton, J. William *see* **Ball, Joseph A., 89m:58018**

Holland, Finbarr (*with* Walsh, David) Growth estimates for functions in the Besov spaces A_p. **89m:30074**

Hong, Oh Kim On an F-algebra of holomorphic functions. **89j:46053**

Horwitz, Alan L. (*with* Rubel, Lee A.) The space of totally bounded analytic functions. **89a:46057**

llán González, Jesús Note on the analytical function approximation and an associated linear problem. **89f:30061**

Izuchi, Keiji Closed subalgebras of bounded analytic functions containing the disk algebra. (Japanese) (Not in MR)

— A function theoretic proof of Axler's zero multiplier theorem. **89f:46053**

Jiménez Pozo, Miguel A. *see* **López Lagomasino, Guillermo, 89c:30098**

Kataoka, Saburô *see* **Hasumi, Morisuke, 89k:46034**

Khan, Abdul Rauf Maximum modulus principle and rings of continuous complex functions. **89d:46053**

Kolaski, Clinton J. Surjective isometries of weighted Bergman spaces. **89m:46042**

Korenblum, Boris *see* **Brown, Leon, 89e:46025**

López Lagomasino, Guillermo (*with* Jiménez Pozo, Miguel A.) Korovkin type theorems for certain classes of analytic functions. (Spanish summary) **89c:30098**

Luecking, Daniel H. Dominating measures for spaces of analytic functions. **89e:46060**

Lyubarskiĭ, Yu. I. Dirichlet series in Smirnov spaces and interpolation by entire functions of exponential type. **89f:30062**

Mortini, Raymond The Chang-Marshall algebras. **89g:46090**

— *see also* **Gorkin, Pamela; et al., 89a:46114**

Muhly, Paul S. (*with* Saito, Kichi-Suke) Analytic subalgebras of von Neumann algebras. **89d:46069**

Müller, Paul F. X. On projections in H^1 and BMO. **89i:46026**

Nagnibida, N. I. *see* **Gorgula, V. I., 89e:47046**

Napalkov, V. V. A basis in the solution space of a convolution equation. **89f:46050**

O'Farrell, Anthony G. Rational approximation and weak analyticity. II. **89k:30036**

Parfenov, O. G. Nuclearity of operators of the embedding of certain classes of analytic functions into weighted spaces. **89k:47030**

Pavlović, Miroslav Mixed norm spaces of analytic and harmonic functions. II. **89a:46056**

Peetre, Jaak *see* **Arazy, J.; et al., 89a:46059**

Richter, Stefan (*with* Shields, Allen) Bounded analytic functions in the Dirichlet space. **89c:46039**

Rubel, Lee A. *see* **Horwitz, Alan L., 89a:46057**

Saito, Kichi-Suke *see* **Muhly, Paul S., 89d:46069**

Sarmant-Durix, Marie Claude (*with* Escassut, Alain) Prolongement analytique à travers un T-filtre. [Analytic continuation through a T-filter] **89k:30049**

Shapiro, Harold S. A uniform boundedness principle concerning inner functions. **89g:46091**

Shen, Xie Chang Approximation in Bers spaces. (Chinese. English summary) **89m:30082**

Shields, Allen *see* **Richter, Stefan, 89c:46039**

Sitarski, Ryszard L-analytic starlike and quasi-starlike maps. (Russian and Polish summaries) **89i:30015**

Srivastava, Rajiv K. On the space of integral functions represented by Dirichlet series. **89i:30033**

Vo Kim An′ Linear functionals and dually extremal problems in weighted Hardy spaces in a half plane. **89h:30051**

Walsh, David *see* **Holland, Finbarr, 89m:30074**

Xu, Cheng De *see* **Zhu, Ying Shan, 89c:46071**

Zhu, Ke He VMO, ESV, and Toeplitz operators on the Bergman space. **89a:47038**

Zhu, Ying Shan (*with* Xu, Cheng De) Some theorems on properties of convergence in H^p-spaces. (Chinese. English summary) **89c:46071**

31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–02 Advanced exposition (research surveys, monographs, etc.)

Lukeš, Jaroslav (*with* Malý, Jan; Zajíček, L.) ★ Fine topology methods in real analysis and potential theory. **89b:31001**

Malý, Jan *see* **Lukeš, Jaroslav; et al., 89b:31001**

Zajíček, L. *see* **Lukeš, Jaroslav; et al., 89b:31001**

Items with secondary classifications in 31–02

Brannan, David A. (*with* Hayman, Walter) Research problems in complex analysis. **89m:30001**

Dellacherie, C. (*with* Meyer, P.-A.) ★ Probabilities and potential. C. **89b:60002**

— (*with* Meyer, P.-A.) Erratum: *Probabilités et potentiel. Chapitres XII–XVI* [Hermann, Paris, 1987; MR 88k:60002]. **89j:60001**

Hayman, Walter *see* **Brannan, David A., 89m:30001**

(Král, Josef) *see* **Potential theory—surveys and problems, 89m:31001**

(Lukeš, Jaroslav) *see* **Potential theory—surveys and problems, 89m:31001**

Meyer, P.-A. *see* **Dellacherie, C., 89b:60002** *and* **89j:60001**

(Netuka, Ivan) *see* **Potential theory—surveys and problems, 89m:31001**

(Norris, James) *see* **Dellacherie, C., 89b:60002**

(Veselý, J.) *see* **Potential theory—surveys and problems, 89m:31001**

Items listed otherwise than by author

Conference:

  Potential Theory ★ Potential theory—surveys and problems. **89m:31001**

Lecture Notes in Mathematics ★ Potential theory—surveys and problems. **89m:31001**

Potential theory—surveys and problems ★ Potential theory—surveys and problems. **89m:31001**

Prague ★ Potential theory—surveys and problems. **89m:31001**

31–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 31–03

Archibald, Thomas Tension and potential from Ohm to Kirchhoff. **89m:01051**

(Brelot, Marcel) *see* **Král, Josef; et al., 89h:01071**

(Euler, Leonhard) *see* **Yurkina, M. I., 89a:01029**

(Kirchhoff, G.) *see* **Archibald, Thomas, 89m:01051**

Král, Josef (*with* Lukeš, Jaroslav; Netuka, Ivan; Veselý, J.) In memory of Professor Marcel Brelot. (Czech) **89h:01071**

Lukeš, Jaroslav *see* **Král, Josef; et al., 89h:01071**

Netuka, Ivan *see* **Král, Josef; et al., 89h:01071**

(Ohm, Georg Simon) *see* **Archibald, Thomas, 89m:01051**

Veselý, J. *see* **Král, Josef; et al., 89h:01071**

Yurkina, M. I. On the history of potential theory in connection with the theory of the shape of the Earth. The contribution of Leonhard Euler. (Russian) **89a:01029**

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Bibliography:

  Euler, Leonhard *see* **Yurkina, M. I., 89a:01029**

Obituary:

  Brelot, Marcel *see* **Král, Josef; et al., 89h:01071**

31–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 31–04

Greengard, Leslie ★ The rapid evaluation of potential fields in particle systems. **89k:31008**

31–06 Proceedings, conferences, etc.

(Král, Josef) *see* **Potential theory, 89j:31001** *and* **Potential theory—surveys and problems, 89m:31001**

(Lukeš, Jaroslav) *see* **Potential theory, 89j:31001** *and* **Potential theory—surveys and problems, 89m:31001**

(Netuka, Ivan) *see* **Potential theory, 89j:31001** *and* **Potential theory—surveys and problems, 89m:31001**

(Veselý, J.) *see* **Potential theory, 89j:31001** *and* **Potential theory—surveys and problems, 89m:31001**

Items listed otherwise than by author

Conference:

  Potential Theory ★ Potential theory. **89j:31001**

  — ★ Potential theory—surveys and problems. **89m:31001**

Lecture Notes in Mathematics ★ Potential theory—surveys and problems. **89m:31001**

Potential theory ★ Potential theory. **89j:31001**

Potential theory—surveys and problems ★ Potential theory—surveys and problems. **89m:31001**

Prague ★ Potential theory. **89j:31001**

— ★ Potential theory—surveys and problems. **89m:31001**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Agranovich, P. Z. (*with* Logvinenko, V. N.) The polynomial asymptotic representation of a subharmonic function. (Russian. English summary) **89e:31001**

Andrievskiĭ, V. V. Constructive description of classes of harmonic functions with singularities on a quasiconformal arc. **89d:31001**

Brück, Rainer Uniqueness theorems for harmonic functions. **89i:31001**

Fryntov, A. E. An extremal problem of potential theory. (Not in MR)

Fuglede, Bent Finely holomorphic functions and finely harmonic morphisms. **89c:31001**

Hinkkanen, A. Modulus of continuity of harmonic functions. **89m:31002**

Logvinenko, V. N. *see* **Agranovich, P. Z., 89e:31001**

Reich, Edgar Local decomposition of harmonic mappings. **89a:31001**

Rippon, P. J. Subharmonic functions with unilateral growth conditions. **89d:31002**

Tamrazov, P. M. Subharmonic functions in a local contour-solid problem. (Russian) (*see* **89j:00035**)

— Sharpened contour-solid theorems for subharmonic functions. **89i:31002**

Yulmukhametov, R. S. Approximation of homogeneous subharmonic functions. **89f:31001**

Items with secondary classifications in 31A05

Bañuelos, Rodrigo (*with* Klemes, Ivo; Moore, Charles N.) An analogue for harmonic functions of Kolmogorov's law of the iterated logarithm. **89k:42019**

Bishop, Christopher J. Approximating continuous functions by holomorphic and harmonic functions. **89j:30051**

Boyd, Stephen (*with* Desoer, C. A.) Subharmonic functions and performance bounds on linear time-invariant feedback systems. (*see* **89b:93008**)

Brannan, David A. Growth rates of subharmonic functions in the plane. **89g:31002**

Desoer, C. A. *see* **Boyd, Stephen**, (**89b:93008**)

Duren, Peter (*with* Schober, G.) A variational method for harmonic mappings onto convex regions. **89g:30039**

Essén, Matts Harmonic majorization and thinness. **89h:31003**

Hu, Hai Chang *see* **Shen, Xin Zhuo, 89h:73008**
Klemes, Ivo *see* **Bañuelos, Rodrigo; et al., 89k:42019**
Moore, Charles N. *see* **Bañuelos, Rodrigo; et al., 89k:42019**
Pavlović, Miroslav Mean values of harmonic conjugates in the unit disc. **89h:30052**
— Lipschitz spaces and spaces of harmonic functions in the unit disc. **89m:46044**
Schober, G. *see* **Duren, Peter, 89g:30039**
Shen, Xin Zhuo (*with* Hu, Hai Chang) A new boundary integral equation for plane harmonic functions. **89h:73008**
Trembinska, A. M. Carlson's theorem for harmonic functions. **89e:30049**

31A10 Integral representations

Fryant, Allan J. Carlson's theorem for generalized axisymmetric potentials. **89i:31003**

Items with secondary classifications in 31A10

Azarina, Yu. V. Meromorphic solutions of the equation $w(z+1)=R[w(z)]$. (Russian) **89e:30060**
Berman, Robert D. (*with* Cohn, William S.) Phragmén-Lindelöf theorems for subharmonic functions on the unit disk. **89i:31004**
Cohn, William S. *see* **Berman, Robert D., 89i:31004**
Maz'ya, V. G. (*with* Solov'ev, A. A.) Asymptotic behavior of the solution of an integral equation of the Neumann problem in a plane domain with cusps at the boundary. (Russian. English and Georgian summaries) **89m:45019**
Solov'ev, A. A. *see* **Maz'ya, V. G., 89m:45019**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Anderson, Stephen L. Bounded point evaluations for nonminimal measures. **89b:31002**
Dubinin, V. N. Transformation of condensers in space. **89d:31003**
Kaufman, Robert (*with* Wu, Jang-Mei) Parabolic measure on domains of class Lip $\frac{1}{2}$. **89g:31001**
Longinetti, Marco Some isoperimetric inequalities for the level curves of capacity and Green's functions on convex plane domains. **89h:31001**
Wu, Jang-Mei *see* **Kaufman, Robert, 89g:31001**

Items with secondary classifications in 31A15

Baernstein, Albert, II Dubinin's symmetrization theorem. **89g:30041**
— On the harmonic measure of slit domains. **89h:30037**
Bishop, Christopher J. A counterexample in conformal welding concerning Hausdorff dimension. **89g:30042**
Caballero, Maria E. Estimation de mesures harmoniques et applications aux fonctions entières. (English summary) [Estimates for harmonic measures and applications to entire functions] **89f:60095**
Gonchar, A. A. (*with* Rakhmanov, E. A.) Equilibrium distributions and the rate of rational approximation of analytic functions. **89h:30054**
Heinonen, Juha Harmonic measure and Makarov's theorem. (Finnish. English summary) **89h:30038**
Huang, Chŭn Hsiung A survey on Doob's problems in function theory and potential theory. II. **89i:30041**
Jenkins, James A. Some estimates for harmonic measures. **89d:30028**
Lehtinen, Matti (*with* Vuorinen, M.) On Teichmüller's modulus problem in the plane. **89g:30035**
Makarov, N. G. Metric properties of harmonic measure. **89h:30039**
— Conformal mapping and Hausdorff measures. **89g:30044**
Nikishin, E. M. (*with* Sorokin, V. N.) ★ Рациональные аппроксимации и ортогональность. (Russian) [Rational approximations and orthogonality] **89m:30079**
Poberezhnyĭ, O. V. Generalized potentials and their application to the solution of problems in mathematical physics. (Russian) **89k:35049**
Rakhmanov, E. A. *see* **Gonchar, A. A., 89h:30054**
Rodin, B. (*with* Warschawski, S. E.) An extremal region for harmonic measure. **89e:30044**
Sorokin, V. N. *see* **Nikishin, E. M., 89m:30079**
Spraker, John S. Note on arc-length and harmonic measure. **89h:30014**
Vuorinen, M. *see* **Lehtinen, Matti, 89g:30035**
Warschawski, S. E. *see* **Rodin, B., 89e:30044**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Berman, Robert D. (*with* Cohn, William S.) Phragmén-Lindelöf theorems for subharmonic functions on the unit disk. **89i:31004**
Brannan, David A. Growth rates of subharmonic functions in the plane. **89g:31002**
Cohn, William S. *see* **Berman, Robert D., 89i:31004**
Lewis, John L. Note on a theorem of Wolff. **89j:31002**
Vlasov, V. I. Hardy-type spaces of harmonic functions. **89k:31001**

Items with secondary classifications in 31A20

Burdzy, Krzysztof Convergence of 2-dimensional h-processes. **89c:60094**
Tamrazov, P. M. Sharpened contour-solid theorems for subharmonic functions. **89i:31002**

31A25 Boundary value and inverse problems

Dontová, Eva Reflection and the Dirichlet problem on doubly connected regions. (Russian and Czech summaries) **89h:31002a**
— Reflection and the Neumann problem on doubly connected regions. (Russian and Czech summaries) **89h:31002b**
Dzagnidze, O. P. Boundary values of the derivatives of the Poisson integral, and the representation of functions. (Russian. English and Georgian summaries) (Not in MR)
Gabibzade, S. A. A linear loaded problem. (Russian) (*see* **89b:41001**)
Homentcovschi, Dorel On the Dirichlet-Neumann mixed boundary value problem for harmonic functions in plane multiply connected domains. **89d:31004**
Kibirev, V. V. Some cases of a problem on a directional derivative with polynomial coefficients for harmonic functions. (Russian. English and Lithuanian summaries) **89d:31005**
Kigami, Jun *see* **Yamaguti, Masaya, 89j:31003**
Kuprin, V. A. Faber series and the Dirichlet problem. (Russian) (*see* **89c:00006**)
Mataev, S. A general mixed boundary value problem for the Laplace equation. (Russian) **89d:31006**
Mirianashvili, M. G. Application of a singular kernel in error estimates for the solution of some boundary value problems for close domains. (Russian. English and Georgian summaries) **89d:31007**
Mukhlisov, F. G. A generalized problem of Dirichlet type. (Russian) **89k:31002**
Shubenko, V. V. A method for solving boundary value problems for the Poisson equation with right-hand side of a special type. (Russian) (*see* **89f:00011**)
Yamaguti, Masaya (*with* Kigami, Jun) Some remarks on Dirichlet problem of Poisson equation. **89j:31003**
Zinsmeister, Michel Problèmes de Dirichlet, Neumann, Calderón dans les quasidisques pour les classes höldériennes. [Dirichlet, Neumann and Calderón problems in quasidisks for Hölder classes] **89i:31005**

Items with secondary classifications in 31A25

Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**
Khatiashvili, N. G. A system of singular integral equations. (Russian. English and Georgian summaries) **89d:45007**
Kishkis, K. Yu. The index of the Bitsadze-Samarskiĭ problem for harmonic functions. **89h:35092**
Kuznetsov, N. G. (*with* Maz'ya, V. G.) Unique solvability of the plane Neumann-Kelvin problem. **89i:35048**
Lapushkĭn, I. T. Finite integral transformations in problems for biharmonic equations. (Ukrainian. Russian summary) **89g:73030**
Longinetti, Marco Some isoperimetric inequalities for the level curves of capacity and Green's functions on convex plane domains. **89h:31001**
Mamonov, A. V. Solution of a two-dimensional inverse problem in gravitational prospectin from data on external and internal fields. (Russian) **89k:86004**
Maz'ya, V. G. *see* **Kuznetsov, N. G., 89i:35048**
Nakai, Mitsuru Being of class C^1 is not enough. (Japanese. English summary) **89h:26013**
Popov, G. Ya. *see* **Antipov, Yu. A.; et al., 89h:73015**
Steux, Jean-Luc Problème de Dirichlet pour le laplacien dans un domaine à point cuspide. (English summary) [Dirichlet problem for the Laplacian in domains with cusp on the boundary] **89i:35039**
Yatsko, S. I. *see* **Antipov, Yu. A.; et al., 89h:73015**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Items with secondary classifications in 31A30

Bitsadze, A. V. Some properties of polyharmonic functions. **89k:31006**
Kovalev, V. F. (*with* Mel'nichenko, I. P.) Biharmonic potentials and plane isotropic displacement fields. **89h:73009**
Lapushkĭn, I. T. Finite integral transformations in problems for biharmonic equations. (Ukrainian. Russian summary) **89g:73030**
Manfredi, Juan J. p-harmonic functions in the plane. **89f:35076**
Mel'nichenko, I. P. *see* **Kovalev, V. F., 89h:73009**
Nitsche, Joachim A. Direct proofs of some unusual shift-theorems. **89m:35055**
Ruppeneĭt, S. K. A new method for constructing power polynomials for solving plane and axisymmetric problems of elasticity theory. (Russian) **89e:73008**

31A35 Connections with differential equations

Aronsson, Gunnar On certain p-harmonic functions in the plane. **89k:31003**
Nakai, Mitsuru (*with* Tada, Toshimasa) Extreme nonmonotoneity of the Picard principle. **89i:31006**
Tada, Toshimasa *see* **Nakai, Mitsuru, 89i:31006**

Items with secondary classifications in 31A35

Kigami, Jun *see* **Yamaguti, Masaya, 89j:31003**
Kosmodem'yanskiĭ, A. A., Jr. Sufficient conditions for the concavity of the solution of the Dirichlet problem for the equation $\Delta u=-1$. (Russian) **89b:35027**
Lewis, John L. Note on a theorem of Wolff. **89j:31002**
Lizorkin, P. I. (*with* Miroshin, N. V.) The generalized Poisson integral and the smoothness of the solution of the Dirichlet problem for degenerate elliptic operators. **89d:35069**
Miroshin, N. V. *see* **Lizorkin, P. I., 89d:35069**
Yamaguti, Masaya (*with* Kigami, Jun) Some remarks on Dirichlet problem of Poisson equation. **89j:31003**

31A99 None of the above, but in this section

Huckemann, S. On the crossingpoint of Green's function of an annulus. **89b:31003**
Shidfar, Afima Abdullah On the Liapunov and Kellogg surfaces. **89g:31003**

Items with secondary classifications in 31A99

Fuglede, Bent Finely holomorphic functions. A survey. **89j:30049**

31Bxx Higher-dimensional theory

Fuglede, Bent Fine potential theory. (*see* **89m:31001**)

31B05 Harmonic, subharmonic, superharmonic functions

Armitage, D. H. On growth and decay of harmonic functions. **89g:31004**
— (*with* Goldstein, Myron) Quadrature and harmonic L^1-approximation in annuli. **89k:31004**
Boas, Harold P. (*with* Boas, R. P.) Short proofs of three theorems on harmonic functions. **89d:31008**
Boas, R. P. *see* **Boas, Harold P., 89d:31008**
Cegrell, Urban Subharmonic functions and minimal surfaces. **89a:31002**
Dzhrbashyan, A. È. Classes A^p_α of harmonic functions in half-spaces, and an analogue of a theorem of M. Riesz. (Russian. English and Armenian summaries) **89e:31002**
Essén, Matts Harmonic majorization, harmonic measure and minimal thinness. **89m:31003**
— Harmonic majorization and thinness. **89h:31003**
Fichera, Gaetano A characteristic property of the sphere in $\mathbf{R}^n$. (Italian) **89h:31004**
Gardiner, S. J. Subharmonicity of mean values of subharmonic functions. **89e:31003**
Goldstein, Myron (*with* Kuran, Ü.) A sharper inequality involving means of subharmonic functions. **89c:31002**
— (*with* Kuran, Ü.) On Harnack-type inequalities and the extremality of the Poisson kernel. **89d:31009**
— (*with* Haussmann, Werner; Rogge, Lothar) On the mean value property of harmonic functions and best harmonic L^1-approximation. **89d:31010**
— *see also* **Armitage, D. H., 89k:31004**
Golubov, B. I. Criteria for subharmonicity of functions of some classes. (Russian) (*see* **89j:00035**)
Haussmann, Werner *see* **Goldstein, Myron; et al., 89d:31010**
Herron, David A. (*with* Vuorinen, M.) Positive harmonic functions in uniform and admissible domains. **89h:31005**
Kuran, Ü. *see* **Goldstein, Myron, 89c:31002** *and* **89d:31009**
Li, Zhi Chan Decomposition, representation and extension of the harmonic functions. **89f:31002**
Madrakhimov, R. M. On the smoothness of subharmonic functions. (Russian) **89h:31006**
McCoy, Peter A. Transmutation of analytic and harmonic functions. **89e:31004**
Mizuta, Yoshihiro On the boundary limits of Green potentials of functions. **89i:31007**
Parker, M. J. Convex sets and subharmonicity of the distance function. **89e:31005**
Rashkovskiĭ, A. Yu. (*with* Ronkin, L. I.) Subharmonic functions of finite order in a cone. **89e:31006**
Rogge, Lothar *see* **Goldstein, Myron; et al., 89d:31010**
Ronkin, L. I. *see* **Rashkovskiĭ, A. Yu., 89e:31006**
Shaginyan, A. A. On tangential harmonic approximation and some related problems. **89g:31005**
Sledd, William T. A note on L^p spaces of harmonic functions. **89i:31008**
Vuorinen, M. *see* **Herron, David A., 89h:31005**
Wiegerinck, Jan Separately subharmonic functions need not be subharmonic. **89m:31004**

Items with secondary classifications in 31B05

Anderson, G. D. (*with* Vamanamurthy, M. K.) The transfinite moduli of condensers in space. **89d:31011**
Brossard, Jean Densité de l'intégrale d'aire dans $\mathbf{R}^{n+1}_+$ et limites non tangentielles. (English summary) [Density of the area integral in $\mathbf{R}^{n+1}_+$ and nontangential limits] **89h:31008**
Essén, Matts On Wiener conditions for minimally thin and rarefied sets. **89m:31005**
Heinonen, Juha Asymptotic paths for subsolutions of quasilinear elliptic equations. **89m:35069**
Hinkkanen, A. Modulus of continuity of harmonic functions. **89m:31002**
Kaneko, Makoto Estimates of the area integrals by the nontangential maximal functions. **89f:42016**
Liao, Guo Jun A study of regularity problem of harmonic maps. **89g:58055**
Mountford, T. S. Transience of a pair of local martingales. **89g:60253**
Pop-Stojanović, Z. R. Thinness and hyperthinness. **89c:60089**
Rippon, P. J. Subharmonic functions with unilateral growth conditions. **89d:31002**
Shaginyan, A. A. On potential approximation of vector fields. **89b:41026**
Tachikawa, Atsushi A nonexistence result for harmonic mappings from $\mathbf{R}^n$ into $\mathbf{H}^n$. **89m:58051**
Vamanamurthy, M. K. *see* **Anderson, G. D., 89d:31011**

31B10 Integral representations

Akın, Ömer The integral representation of the positive solutions of the generalized Weinstein equation on a quarter-space. **89k:31005**
Mair, Bernard (*with* Taylor, John Christopher) Integral representation of positive solutions of the heat equation. **89g:31006**
Taylor, John Christopher *see* **Mair, Bernard, 89g:31006**
Zoriĭ, N. V. A problem on the minimum of Green's energy for space condensers. (Russian) **89i:31009**

Items with secondary classifications in 31B10

Armitage, D. H. On growth and decay of harmonic functions. **89g:31004**
Chabrowski, J. H. (*with* Thompson, H. B.) Singular and quasi-bounded functions associated with the heat equation. **89k:31007**
Garofalo, Nicola (*with* Lanconelli, Ermanno) Wiener's criterion for parabolic equations with variable coefficients and its consequences. **89k:35104**
Kuusalo, Tapani A Green formula with multiplicities. **89m:30083**
Lanconelli, Ermanno *see* **Garofalo, Nicola, 89k:35104**
Mukhlisov, F. G. An analogue of the Harnack inequality for B-harmonic functions. (Russian) **89g:31010**
Samotij, Krzysztof An extension of Widder's theorem. **89c:35072**
Thompson, H. B. *see* **Chabrowski, J. H., 89k:31007**

31B15 Potentials and capacities, extremal length

Adams, David R. Weighted capacity and the Choquet integral. **89h:31007**
Anderson, G. D. (*with* Vamanamurthy, M. K.) The transfinite moduli of condensers in space. **89d:31011**
Blaga, L. (*with* Lungu, N.; Goron, S.) On integral representation of the overpotential. (Romanian summary) (Not in MR)
Dal Maso, Gianni (*with* Defranceschi, A.) A Kellogg property for μ-capacities. (Italian summary) **89g:31007**
Dassios, George On the harmonic radius and the capacity of an inverse ellipsoid. **89d:31012**
Defranceschi, A. *see* **Dal Maso, Gianni, 89g:31007**
Essén, Matts On Wiener conditions for minimally thin and rarefied sets. **89m:31005**
Fabrikant, V. I. Potential of several arbitrarily located disks. **89b:31004**
Goron, S. *see* **Blaga, L.; et al.**, (Not in MR)
Günther, Matthias Über zwei spezielle inverse Probleme der Potentialtheorie. (English and Russian summaries) [On two special inverse problems of potential theory] **89b:31005**
Lungu, N. *see* **Blaga, L.; et al.**, (Not in MR)
Ohtsuka, Makoto Weighted extremal length and Beppo Levi functions. (*see* **89m:31001**)
Philippin, Gérard A. Complementary isoperimetric inequalities for capacity, polarization, and virtual mass. **89i:31010**
Vamanamurthy, M. K. *see* **Anderson, G. D., 89d:31011**
Wu, Jang-Mei Content and harmonic measure: an extension of Hall's lemma. **89b:31006**
Yamamoto, Hiromichi On a certain inequality of condenser capacities in $\mathbf{R}^d$. **89e:31007**

Items with secondary classifications in 31B15

Bellout, Hamid (*with* Friedman, Avner) Identification problems in potential theory. **89c:31003**
El-Damanawi, K. E. S. *see* **Jawson, Maurice A., 89i:73006**
Essén, Matts Harmonic majorization, harmonic measure and minimal thinness. **89m:31003**
Friedman, Avner *see* **Bellout, Hamid, 89c:31003**
Graversen, S. E. (*with* Rao, Murali) On a theorem of Cartan. **89b:60179**
Hahn, K. T. (*with* Stoll, M.) Boundary limits of Green potentials on the ball in $\mathbf{C}^n$. **89f:31005**
Jawson, Maurice A. (*with* El-Damanawi, K. E. S.) The representation of elastostatic fields by vector potentials (invited contribution). **89i:73006**
Khavinson, Dmitry On uniform approximation by harmonic functions. **89a:41026**
Kim, L. S. A modular criterion for membership of a homeomorphism in the Carathéodory class. (Russian) **89h:30030**
Kim, Mi He On the multiharmonic orthogonal projection in the space $\mathring{D}(\Omega)$. (Korean. English summary) **89a:35067**
Korevaar, J. Some $\mathbf{C}^N$ capacities and applications—the lemma on mixed derivatives revisited. (Serbo-Croatian summary) **89a:32003**
— Some $\mathbf{C}^N$ capacities and applications. **89d:32035**
Kruglikov, V. I. Prime ends of three-dimensional domains with variable boundaries. **89d:30036**
Novak, V. I. On the structure of minimal convex bodies. **89f:52004**
Rao, Murali *see* **Graversen, S. E., 89b:60179**
Rubin, B. S. One-sided potentials, the spaces $L^\alpha_{p,r}$ and the inversion of Riesz and Bessel potentials in the half-space. **89m:46066**
Stoll, M. *see* **Hahn, K. T., 89f:31005**
Tenti, G. (*with* Young, John H.) Gravitational attraction between bodies of finite dimensions: a brief review. **89m:70001**
Young, John H. *see* **Tenti, G., 89m:70001**
Zoriĭ, N. V. A problem on the minimum of Green's energy for space condensers. (Russian) **89i:31009**

31B20 Boundary value and inverse problems

Bellout, Hamid (*with* Friedman, Avner) Identification problems in potential theory. **89c:31003**
Fabes, Eugene Layer potential methods for boundary value problems on Lipschitz domains. (*see* **89m:31001**)
Fichera, Gaetano Some remarks on potential theory. (Italian. English summary) **89m:31006**
Friedman, Avner *see* **Bellout, Hamid, 89c:31003**
Haussmann, Werner Approximation by harmonic functions. **89b:31007**
Maderna, Carla (*with* Pagani, C. D.; Salsa, Sandro) Analytic solutions to the inverse problem of the Newtonian potential. **89d:31013**
Markiewicz, Teresa (*with* Rempulska, Lucyna) The first boundary value problem for some equations of the polyharmonic type. **89g:31008**
Netuka, Ivan Extensions of operators and the Dirichlet problem in potential theory. **89f:31003**
Pagani, C. D. *see* **Maderna, Carla; et al., 89d:31013**
Protsenko, V. S. Boundary value problems of potential theory for spheroids of revolution. (Russian. English summary) **89c:31004**
Rempulska, Lucyna *see* **Markiewicz, Teresa, 89g:31008**
Roach, G. F. An introduction to iterative techniques for potential problems. (*see* **89m:31001**)
Salsa, Sandro *see* **Maderna, Carla; et al., 89d:31013**
Schmidt, E. J. P. Georg On an extremal problem involving harmonic functions. **89e:31008**
Wu, Jiong Qi Generalized Riemann theorems and the elliptic Martin boundary in $\mathbf{R}^n$. (Chinese. English summary) **89j:31004**

Items with secondary classifications in 31B20

Aleksidze, M. A. ★ Приближенные методы решения прямых и обратных задач гравиметрии. (Russian) [Approximate methods for solving direct and inverse problems of gravimetry] **89k:86008**
Brodskiĭ, M. A. (*with* Strakhov, V. N.) In the class of homogeneous polyhedra homeomorphic to a ball, the solution of the inverse Newtonian potential problem is unique. (Russian) **89d:52014**
Dal Maso, Gianni (*with* Defranceschi, A.) Limits of nonlinear Dirichlet problems in varying domains. **89k:49007**
Defranceschi, A. *see* **Dal Maso, Gianni, 89k:49007**

Freeden, Willi Metaharmonic splines for solving the exterior Dirichlet problem for the Helmholtz equation. **89h:41025**
Garofalo, Nicola (*with* Lanconelli, Ermanno) Wiener's criterion for parabolic equations with variable coefficients and its consequences. **89k:35104**
Guseinov, F. M. *see* **Novruzov, A. A., 89h:35126**
Kapanadze, D. V. Uniqueness of the solution of an inverse problem of potential theory. (Russian. English and Georgian summaries) **89i:86008**
Lanconelli, Ermanno *see* **Garofalo, Nicola, 89k:35104**
Novruzov, A. A. (*with* Guseĭnov, F. M.) Boundary properties of the solutions of second-order elliptic equations. (Russian. English and Azerbaijani summaries) **89h:35126**
Ramey, Wade (*with* Russo, Paula) Behavior of functions in BMOA and VMOA near a $(2n-2)$-dimensional submanifold. **89f:32008**
Russo, Paula *see* **Ramey, Wade, 89f:32008**
Shaginyan, A. A. On tangential harmonic approximation and some related problems. **89g:31005**
Sokolovskiĭ, V. B. On a generalization of the Neumann problem. (Russian) **89k:35070**
Strakhov, V. N. *see* **Brodskiĭ, M. A., 89d:52014**
Wildenhain, Günther Potential theory methods for higher order elliptic equations. (*see* **89m:31001**)

31B25 Boundary behavior

Brossard, Jean Densité de l'intégrale d'aire dans $\mathbf{R}_+^{n+1}$ et limites non tangentielles. (English summary) [Density of the area integral in $\mathbf{R}_+^{n+1}$ and nontangential limits] **89h:31008**
Gardiner, S. J. Functions harmonic outside a manifold. **89e:31009**
— Growth properties of pth means of potentials in the unit ball. **89f:31004**
Hahn, K. T. (*with* Stoll, M.) Boundary limits of Green potentials on the ball in $\mathbf{C}^n$. **89f:31005**
Mizuta, Yoshihiro Boundary behavior of p-precise functions on a half space of $\mathbf{R}^n$. **89d:31014**
— On the boundary limits of harmonic functions. **89d:31015**
Stoll, M. *see* **Hahn, K. T., 89f:31005**
Wolff, Thomas H. Generalizations of Fatou's theorem. **89h:31009**

Items with secondary classifications in 31B25

Alkhutov, Yu. A. (*with* Mamedov, I. T.) The class of elliptic equations with the Wiener criterion of regularity of boundary points. (Russian. English and Azerbaijani summaries) **89k:35097**
Dal Maso, Gianni (*with* Defranceschi, A.) Limits of nonlinear Dirichlet problems in varying domains. **89k:49007**
Defranceschi, A. *see* **Dal Maso, Gianni, 89k:49007**
Essén, Matts On Wiener conditions for minimally thin and rarefied sets. **89m:31005**
Hahn, K. T. (*with* Singman, David) Boundary behavior of invariant Green's potentials on the unit ball in $\mathbf{C}^n$. **89j:32008**
Kruglikov, V. I. Prime ends of three-dimensional domains with variable boundaries. **89d:30036**
Kufarev, B. P. K-continuity and the limits of functions of the class $\mathscr{L}_p^1$ at boundary points. **89f:46073**
Lin, Tzu-Chu Smoothness results of single and double layer solutions of the Helmholtz equations. **89i:35037**
Mamedov, I. T. *see* **Alkhutov, Yu. A., 89k:35097**
Mizuta, Yoshihiro On the boundary limits of Green potentials of functions. **89i:31007**
Shaginyan, A. A. On tangential harmonic approximation and some related problems. **89g:31005**
Singman, David *see* **Hahn, K. T., 89j:32008**
Stoica, Lucretiu A class of sets which are thin with respect to a point in the Martin boundary of the half-space. **89b:60180**
Wittmann, Rainer Nicht-tangentiales Randverhalten von harmonischen Funktionen in irregulären Randpunkten. [Nontangential boundary behavior of harmonic functions at irregular boundary points] **89d:31018**
— A uniform boundary Harnack inequality on nontangentially accessible domains. **89e:31016**

31B30 Biharmonic and polyharmonic equations and functions

Bitsadze, A. V. Some properties of polyharmonic functions. **89k:31006**
Chen, Zu Chi Inequalities for eigenvalues of a class of polyharmonic operators. **89g:31009**

Items with secondary classifications in 31B30

Ding, Hao Jiang (*with* Xu, Bo Hou) General solutions of axisymmetric problems in transversely isotropic body. **89f:73010**
Ligocka, Ewa On the reproducing kernel for harmonic functions and the space of Bloch harmonic functions on the unit ball in $\mathbf{R}^n$. **89f:46054a**
— On the space of Bloch harmonic functions and interpolation of spaces of harmonic and holomorphic functions. **89f:46054b**
— On duality and interpolation for spaces of polyharmonic functions. **89f:46054c**
Nitsche, Joachim A. Direct proofs of some unusual shift-theorems. **89m:35055**
Ramm, A. G. An inverse problem for biharmonic equation. **89h:35342**
Sukretnyĭ, V. I. Approximate determination of the equilibrium state of a punctured plate with slight rigidity. (Russian) **89f:73014**
Xu, Bo Hou *see* **Ding, Hao Jiang, 89f:73010**

31B35 Connections with differential equations

Chabrowski, J. H. (*with* Thompson, H. B.) Singular and quasi-bounded functions associated with the heat equation. **89k:31007**
Mukhlisov, F. G. An analogue of the Harnack inequality for B-harmonic functions. (Russian) **89g:31010**
Tabov, Ĭ. B. The Dirichlet problem for the Poisson equation on two intersecting planes. **89e:31010**
Thompson, H. B. *see* **Chabrowski, J. H., 89k:31007**

Items with secondary classifications in 31B35

Biroli, M. (*with* Mosco, U.) Wiener estimates for parabolic obstacle problems. **89g:35059**
Garofalo, Nicola New estimates of the fundamental solution and Wiener's criterion for parabolic equations with variable coefficients. **89m:35097**
Gawinecki, Jerzy *see* **Hung Do Duc; et al., (89j:31001)**
Hänler, Michael (*with* Wildenhain, Günther) Eine Bemerkung über Stabilität und Approximation in Zusammenhang mit dem Dirichlet-Problem. [A remark on stability and approximation in connection with the Dirichlet problem] **89e:35044**
Horiuchi, Toshio On the potential theory for certain degenerated elliptic operators. **89h:35129**
Hung Do Duc (*with* Gawinecki, Jerzy; Piskorek, Adam) On thermoelastic potential. (*see* **89j:31001**)
Mosco, U. *see* **Biroli, M., 89g:35059**
Nitsche, Joachim A. Direct proofs of some unusual shift-theorems. **89m:35055**
Piskorek, Adam *see* **Hung Do Duc; et al., (89j:31001)**
Wildenhain, Günther *see* **Hänler, Michael, 89e:35044**

31B99 None of the above, but in this section

Chuĭkova, N. A. Transition from the Mittag-Leffler expansion to the expansion of the potential of an arbitrary body in the domain of its analyticity. (Russian) **89e:31011**
Kapoor, G. P. (*with* Nautiyal, A.) Growth and approximation of generalized bi-axially symmetric potentials. **89f:31006**
Lewis, John L. Uniformly fat sets. **89e:31012**
Nautiyal, A. *see* **Kapoor, G. P., 89f:31006**

Items with secondary classifications in 31B99

Haussmann, Werner Approximation by harmonic functions. **89b:31007**
Heinonen, Juha (*with* Kilpeläinen, Tero) A-superharmonic functions and supersolutions of degenerate elliptic equations. **89k:35079**
Kilpeläinen, Tero *see* **Heinonen, Juha, 89k:35079**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Boboc, N. (*with* Bucur, Gh.) Order and convexity in potential theory. (*see* **89m:31001**)
Bucur, Gh. *see* **Boboc, N., (89m:31001)**
Gauthier, Paul M. (*with* Grothmann, R.; Hengartner, W.) Asymptotic maximum principle for subharmonic and plurisubharmonic functions. **89g:31011**
Grothmann, R. *see* **Gauthier, Paul M.; et al., 89g:31011**
Hengartner, W. *see* **Gauthier, Paul M.; et al., 89g:31011**
Kalton, N. J. Harmonic functions in non-locally convex spaces. **89i:31011**
Madrakhimov, R. M. The smoothness of subharmonic functions on the plane. (Russian) **89a:31003**

Items with secondary classifications in 31C05

Agranovich, P. Z. (*with* Logvinenko, V. N.) Two-term asymptotic expansions of entire functions and of Dzhrbashyan canonical products of integral order in a half-plane. (Russian) **89c:30104**
Élie, Laure Noyaux potentiels associés aux marches aléatoires sur les espaces homogènes. Quelques exemples clefs dont le groupe affine. [Potential kernels associated with random walks on homogeneous spaces. Some key examples, including the affine group] **89f:60011**
Hahn, K. T. (*with* Stoll, M.) Boundary limits of Green potentials on the ball in $\mathbf{C}^n$. **89f:31005**
Khusanov, Z. Kh. Maximal q-subharmonic functions. (Russian) **89f:32031**
Logvinenko, V. N. *see* **Agranovich, P. Z., 89c:30104**
Manfredi, Juan J. (*with* Weitsman, Allen) On the Fatou theorem for p-harmonic functions **89h:35053**
Pop-Stojanović, Z. R. Continuity of excessive harmonic functions for certain diffusions. **89e:60145**
Słodkowski, Zbigniew Pseudoconvex classes of functions. I. Pseudoconcave and pseudoconvex sets. **89m:32031**
Stoll, M. *see* **Hahn, K. T., 89f:31005**
Tamrazov, P. M. Almost subharmonic functions, their analogues in complex spaces and the removal of singularities. (Russian) **89f:31007**
Toledo, Domingo Bounded harmonic functions on coverings. **89h:58206**
Weitsman, Allen *see* **Manfredi, Juan J., 89h:35053**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Matsugu, Yasuo Strong limits of M-subharmonic functions. **89g:31012**
Tamrazov, P. M. Almost subharmonic functions, their analogues in complex spaces and the removal of singularities. (Russian) **89f:31007**

Items with secondary classifications in 31C10

Cegrell, Urban Subharmonic functions and minimal surfaces. **89a:31002**
— Plurisubharmonic functions outside compact sets. **89d:32040**
Ch'ên, Wu Yung Hardy and Lipschitz spaces of holomorphic functions and pluriharmonic functions over bounded symmetric domains in $\mathbf{C}^N$. **89b:32041**
Fukushima, Masatoshi On holomorphic diffusions and plurisubharmonic functions. **89g:60237**
Korevaar, J. Polynomial approximation numbers, capacities and extended Green functions for C and $\mathbf{C}^N$. **89b:32022**
Maciejkowska, A. On some mappings obtained by a holomorphic continuation from $\mathbf{R}^{2n}$ into $\mathbf{C}^{2n}$. (Russian and Polish summaries) **89e:32019**

Nadbitova, N. S. Maximal plurisubharmonic Green functions for a compact set in $\mathbf{C}^n$ and their application to continuable bases. (Russian) **89h:32034**
Shi, Ji Huai On the rate of growth of the means M_p of holomorphic and pluriharmonic functions on bounded symmetric domains of $\mathbf{C}^n$. **89d:32011**
Słodkowski, Zbigniew Pseudoconvex classes of functions. I. Pseudoconcave and pseudoconvex sets. **89m:32031**
Thorbiörnson, Johan A counterexample to the strong subadditivity of extremal plurisubharmonic functions. **89c:32036**
Udagawa, Seiichi Pluriharmonic maps and minimal immersions of Kähler manifolds. **89e:53092**
Vasin, A. V. Isometries between L^p-spaces of pluriharmonic and polyanalytic functions. (Russian) **89k:46037**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Nadirashvili, N. S. Harmonic functions with a given set of singularities. **89f:31008**
Nicaise, Serge Elliptic operators on elementary ramified spaces. **89g:31013**

Items with secondary classifications in 31C12

Ancona, Alano Positive harmonic functions and hyperbolicity. (*see* **89m:31001**)
Blank, B. E. Nontangential maximal functions over compact Riemannian manifolds. **89i:58142**
Cranston, M. (*with* Mueller, C.) A review of recent and older results on the absolute continuity of harmonic measure. **89h:35088**
Mueller, C. *see* **Cranston, M., 89h:35088**
Ohnita, Yoshihiro (*with* Udagawa, Seiichi) Stable harmonic maps from Riemann surfaces to compact Hermitian symmetric spaces. **89b:58057**
Udagawa, Seiichi *see* **Ohnita, Yoshihiro, 89b:58057**

31C15 Potentials and capacities

Berg, Christian Fonctions définies négatives et majoration de Schur. [Negative definite functions and Schur majorization] **89c:31005**
Dal Maso, Gianni Γ-convergence and μ-capacities. **89h:31010**
Hansen, Wolfhard (*with* Hueber, H.) Singularity of harmonic measure for sub-Laplacians. (French summary) **89m:31007**
Hueber, H. *see* **Hansen, Wolfhard, 89m:31007**
Itô, Masayuki[1] Les noyaux de convolution de type logarithmique. [Convolution kernels of logarithmic type] **89c:31006**

Items with secondary classifications in 31C15

Cegrell, Urban ★ Capacities in complex analysis. **89m:32001**
Dellacherie, C. Théorie générale du balayage. [General theory of balayage] **89c:60087**
Fitzsimmons, P. J. Penetration times and Skorohod stopping. **89k:60109**
Fukushima, Masatoshi On holomorphic diffusions and plurisubharmonic functions. **89g:60237**
— A note on capacities in infinite dimensions. **89d:60147**
Getoor, R. K. Capacity theory and weak duality. **89a:60176**
— Some remarks on measures associated with homogeneous random measures. **89f:60087**
— (*with* Steffens, J.) The energy functional, balayage, and capacity. (French summary) **89b:60178**
Hedberg, Lars Inge Nonlinear potential theory and Sobolev spaces. **89a:46074**
Horiuchi, Toshio On the potential theory for certain degenerated elliptic operators. **89h:35129**
Huckemann, S. Ein Extremalproblem für das harmonische Maß einer Familie von Kontinua im Einheitskreis. [An extremal problem for the harmonic measure of a family of continua in the unit disc] **89j:30032**
Isakov, N. M. A remark on (T,p)-capacity. **89f:28004**
Korevaar, J. Polynomial approximation numbers, capacities and extended Green functions for C and C^N. **89b:32022**
Laurence, Peter Une nouvelle formule pour dériver par rapport aux lignes de niveau et applications. (English summary) [A new formula for differentiating with respect to level curves and applications] **89h:26015**
Mazziotto, G. Two-parameter Hunt processes and a potential theory. **89j:60105**
Steffens, J. *see* **Getoor, R. K., 89b:60178**
Vodop'yanov, S. K. The maximum principle in potential theory and embedding theorems for anisotropic spaces of differentiable functions. **89f:46079**
— Quasielliptic L_p-theory of potential and its applications. **89f:46086**

31C20 Discrete potential theory and numerical methods

Ancona, Alano Positive harmonic functions and hyperbolicity. (*see* **89m:31001**)
Charlot, F. Sur la démonstration des formules en théorie discrète du potentiel. [On the proof of formulas in discrete potential theory] **89h:31011**
Greengard, Leslie ★ The rapid evaluation of potential fields in particle systems. **89k:31008**
Picardello, Massimo A. (*with* Sjögren, Peter) The minimal Martin boundary of a Cartesian product of trees. **89i:31012**
Sjögren, Peter *see* **Picardello, Massimo A., 89i:31012**

Items with secondary classifications in 31C20

Dellacherie, C. (*with* Meyer, P.-A.) ★ Probabilities and potential. C. **89b:60002**
Kesten, Harry Hitting probabilities of random walks on $\mathbf{Z}^d$. **89a:60163**
Meyer, P.-A. *see* **Dellacherie, C., 89b:60002**
(Norris, James) *see* **Dellacherie, C., 89b:60002**

31C25 Dirichlet spaces

Maeda, Fumi-Yuki Dirichlet integral and energy of potentials on harmonic spaces with adjoint structure. **89k:31009**
Popa, Eugen Natural continuity of an H-map. **89k:31010**

Items with secondary classifications in 31C25

Bouleau, N. (*with* Hirsch, F. A.) Propriétés d'absolue continuité dans les espaces de Dirichlet et application aux équations différentielles stochastiques. (English summary) [Absolute continuity properties in Dirichlet spaces and an application to stochastic differential equations] **89f:60060**
Fukushima, Masatoshi A note on capacities in infinite dimensions. **89d:60147**
Hansen, Wolfhard (*with* Hueber, H.) Singularity of harmonic measure for sub-Laplacians. (French summary) **89m:31007**
Hida, Takeyuki (*with* Potthoff, J.; Streit, L.) Dirichlet forms and white noise analysis. **89e:60105**
Hirsch, F. A. *see* **Bouleau, N., 89f:60060**
Hueber, H. *see* **Hansen, Wolfhard, 89m:31007**
Kim, Jai Heui Stochastic calculus related to nonsymmetric Dirichlet forms. **89k:60111**
Potthoff, J. *see* **Hida, Takeyuki; et al., 89e:60105**
Streit, L. *see* **Hida, Takeyuki; et al., 89e:60105**

31C35 Martin boundary theory [see also 60J50]

Segawa, Shigeo Martin boundaries of Denjoy domains. **89m:31008**

Items with secondary classifications in 31C35

Ancona, Alano Positive harmonic functions and hyperbolicity. (*see* **89m:31001**)
Cornea, Aurel (*with* Loeb, Peter A.) On semiregular points of the Martin boundary. **89m:31010**
Loeb, Peter A. *see* **Cornea, Aurel, 89m:31010**
Picardello, Massimo A. (*with* Sjögren, Peter) The minimal Martin boundary of a Cartesian product of trees. **89i:31012**
Sjögren, Peter *see* **Picardello, Massimo A., 89i:31012**

31C99 None of the above, but in this section

Items with secondary classifications in 31C99

Acker, Andrew On the geometric form of Bernoulli configurations. **89b:35014**
Blasco De La Cruz, Oscar Boundary values of vector-valued harmonic functions considered as operators. **89c:46053**
Burdzy, Krzysztof Brownian excursions and minimal thinness. III. Applications to the angular derivative problem. **89b:60175**
— ★ Multidimensional Brownian excursions and potential theory. **89d:60146**
Chung, Kai Lai Probability methods in potential theory. (*see* **89m:31001**)
Itô, Masayuki[1] Diffusion kernels of logarithmic type. **89m:60181**
Kaneko, Hiroshi[2] A stochastic resolution of a complex Monge-Ampère equation on a negatively curved Kähler manifold. **89c:32034**
Lindqvist, P. (*with* Martio, O.) Regularity and polar sets for supersolutions of certain degenerate elliptic equations. **89h:35051**
Martio, O. *see* **Lindqvist, P., 89h:35051**
Meyer, P.-A. Sur l'interprétation probabiliste de l'énergie. [On the probabilistic interpretation of energy] **89f:60088**

31D05 Axiomatic potential theory

Arsove, Maynard (*with* Leutwiler, Heinz) Excessive elements in harmonic semigroups. **89c:31007**
Beznea, Lucian Parabolic and elliptic parts in standard H-cones of functions. **89c:31008**
Boboc, N. (*with* Bucur, Gh.) Fine potentials and supermean functions on standard H-cones. **89c:31009**
— (*with* Bucur, Gh.) On a Hunt hypothesis. **89d:31016**
— (*with* Bucur, Gh.) On Frostman property in standard H-cones of functions. **89m:31009**
Bucur, Gh. *see* **Boboc, N., 89c:31009; 89d:31016** *and* **89m:31009**
Cornea, Aurel (*with* Loeb, Peter A.) On semiregular points of the Martin boundary. **89m:31010**
Gao, Qi Ren The regular capacity of the balayage of positive hyperharmonic functions on harmonic spaces. (Chinese. English summary) **89e:31013**
Hansen, Wolfhard Balayage spaces—a natural setting for potential theory. (*see* **89m:31001**)
— (*with* Hueber, H.) Eigenvalues in potential theory. **89e:31014**
Hueber, H. The domination principle for the sum of squares of vector fields. **89e:31015**
— *see also* **Hansen, Wolfhard, 89e:31014**
Laine, I. Axiomatic nonlinear potential theories. (*see* **89m:31001**)
Leutwiler, Heinz *see* **Arsove, Maynard, 89c:31007**
Loeb, Peter A. *see* **Cornea, Aurel, 89m:31010**
Oja, Kirsti Connectivity properties for complements of exceptional sets. **89k:31011**
Popa, Eugen A characterization of morphisms of H-cones. **89d:31017**
Popa, Liliana Dirichlet integrals on standard H-cones. **89h:31012**
Wittmann, Rainer Nicht-tangentiales Randverhalten von harmonischen Funktionen in irregulären Randpunkten. [Nontangential boundary behavior of harmonic functions at irregular boundary points] **89d:31018**
— A uniform boundary Harnack inequality on nontangentially accessible domains. **89e:31016**

Items with secondary classifications in 31D05

Fitzsimmons, P. J. On two results in the potential theory of excessive measures. **89b:60177**
Fuglede, Bent Fine potential theory. (*see* **89m:31001**)
Netuka, Ivan Extensions of operators and the Dirichlet problem in potential theory. **89f:31003**
Steffens, J. Excessive measures and the existence of right semigroups and processes. **89e:60146**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–01 Elementary exposition; textbooks

(Narasimhan, M. S.) *see* **Schwartz, Laurent, 89a:32001**
Schwartz, Laurent ★ Lectures on complex analytic manifolds. **89a:32001**

Items with secondary classifications in 32–01

(Akhiezer, D. N.) *see* **Grauert, Hans, 89j:32009**
Grauert, Hans (*with* Remmert, R.) ★ Аналитические локальные алгебры. (Russian) [Analytic local algebras] **89j:32009**
(Onishchik, A. L.) *see* **Grauert, Hans, 89j:32009**
Remmert, R. *see* **Grauert, Hans, 89j:32009**
(Riemenschneider, Oswald) *see* **Grauert, Hans, 89j:32009**

32–02 Advanced exposition (research surveys, monographs, etc.)

Cegrell, Urban ★ Capacities in complex analysis. **89m:32001**
(King, James R.) *see* **Manin, Yu. I., 89d:32001**
(Koblitz, Neal I.) *see* **Manin, Yu. I., 89d:32001**
Manin, Yu. I. ★ Gauge field theory and complex geometry. **89d:32001**

Items with secondary classifications in 32–02

Kobayashi, Shoshichi ★ Differential geometry of complex vector bundles. **89e:53100**
Kruzhilin, N. G. Description of the local automorphism groups of real hypersurfaces. **89h:32037**
Palamodov, V. P. Deformations of complex spaces. (Russian) **89f:32035**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

Constantinescu, Corneliu Simion Stoïlow. **89e:01043**
(Stoïlow, Simion) *see* **Constantinescu, Corneliu, 89e:01043**

32–06 Proceedings, conferences, etc.

(Coen, Salvatore) *see* **Seminar: Geometry, 89f:32001** *and* **89f:32002**
(Guenot, Jacques) *see* **Seminar: Complex Analysis and Geometry, 1987, 89c:32002**
(Khenkin, G. M.) *see* **Several complex variables, 89m:32002**
(Peetre, Jaak) *see* **Several complex variables, 89m:32002**
(Struppa, Daniele) *see* **Seminar: Complex Analysis and Geometry, 1987, 89c:32002**

Items listed otherwise than by author

Algebra ★ Algèbre. (French) [Algebra] **89c:32001**
Algèbre ★ Algèbre. (French) [Algebra] **89c:32001**
Bologna ★ Seminari di Geometria. 1986. [Geometry Seminars. 1986] **89f:32001**
— ★ Seminari di Geometria. 1987–1988. (Italian) [Geometry Seminars. 1987–1988] **89f:32002**
Complex analysis and complex geometry ★ Complex analysis and complex geometry. (Japanese) **89a:32002**
Function algebras and related topics ★ Kansukan ni kanren shita sho mondai. II. (Japanese) [Function algebras and related topics. II] **89i:32001**
Problems concerning stratified spaces and analytic varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**
Rende ★ Seminar in Complex Analysis and Geometry 1987. (Italian) **89c:32002**
Seminar:
  Complex Analysis and Geometry, 1987 ★ Seminar in Complex Analysis and Geometry 1987. (Italian) **89c:32002**
  Geometry ★ Seminari di Geometria. 1986. [Geometry Seminars. 1986] **89f:32001**
  — ★ Seminari di Geometria. 1987–1988. (Italian) [Geometry Seminars. 1987–1988] **89f:32002**
Several complex variables ★ Several complex variables. III. **89m:32002**
Symposium:
  Complex Analysis and Complex Geometry ★ Complex analysis and complex geometry. (Japanese) **89a:32002**
  Function Algebras and Related Topics ★ Kansukan ni kanren shita sho mondai. II. (Japanese) [Function algebras and related topics. II] **89i:32001**
  Problems Concerning Stratified Spaces and Analytic Varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**

Items with secondary classifications in 32–06

(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Newest results, 89c:00010**
(Goldman, William M.) *see* **Geometry of group representations, 89c:20002**
(Lawrynowicz, Julian) *see* **Deformations of mathematical structures, 89j:00010**
(Magid, Andy R.) *see* **Geometry of group representations, 89c:20002**
(Sernesi, E.) *see* **Theory of moduli, 89e:14002**

Items listed otherwise than by author

Boulder, CO ★ Geometry of group representations. **89c:20002**
Conference:
  Geometry of Group Representations ★ Geometry of group representations. **89c:20002**
Contemporary Mathematics ★ Geometry of group representations. **89c:20002**
Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 32. (Russian) [Current problems in mathematics. Newest results. Vol. 32] **89c:00010**
Deformations of mathematical structures ★ Deformations of mathematical structures. **89j:00010**
Geometry of group representations ★ Geometry of group representations. **89c:20002**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Новейшие достижения. Том 32. (Russian) [Current problems in mathematics. Newest results. Vol. 32] **89c:00010**
Lecture Notes in Mathematics ★ Theory of moduli. **89e:14002**
Łódź ★ Deformations of mathematical structures. **89j:00010**
Lublin ★ Deformations of mathematical structures. **89j:00010**
— ★ Deformations of mathematical structures. **89j:00010**
Montecatini Terme ★ Theory of moduli. **89e:14002**
School:
  Complex Analysis ★ Deformations of mathematical structures. **89j:00010**
Seminar:
  Deformations ★ Deformations of mathematical structures. **89j:00010**
Session:
  Theory of Moduli ★ Theory of moduli. **89e:14002**
Theory of moduli ★ Theory of moduli. **89e:14002**

32Axx Holomorphic functions of several complex variables

Items with secondary classifications in 32Axx

(Khenkin, G. M.) *see* **Several complex variables, 89m:32002**
(Peetre, Jaak) *see* **Several complex variables, 89m:32002**

Items listed otherwise than by author

Several complex variables ★ Several complex variables. III. **89m:32002**

32A05 Power series, series of functions

Adepoju, J. A. On the effectiveness of basic sets of two complex variables in polycylinders. **89j:32001**
— A note on the effectiveness of product set of basic sets of polynomials of two complex variables in Faber regions. **89f:32003**
Gavrilova, R. M. Characteristics of the growth of functions that are analytic in tube domains. (Russian) **89g:32001**
Ibragimov, G. I. On the representation of analytic functions of two variables in a product of infinite convex domains by Dirichlet series. (Russian) **89e:32001**
— Representation of analytic functions in a closed polydomain by Dirichlet series. **89h:32001**
Kishka, Z. M. G. Exponentional set of polynomials of two complex variables. II. (Arabic summary) **89c:32003**
Levenberg, N. (*with* Molzon, R. E.) Convergence sets of a formal power series. **89b:32002**
Makosii, A. I. On the problem of the asymptotic behavior of the coefficients of a Taylor series. (Russian) **89h:32002**
Melikhov, S. N. Expansion of analytic functions in series of exponentials. (Russian) **89k:32001**
Molzon, R. E. *see* **Levenberg, N., 89b:32002**
Plesyak, A. A. Approximation of analytic functions of two complex variables by polynomials in a principal star domain. **89g:32002**
Safonov, K. V. Holomorphic continuation of a two-dimensional Hadamard product. (Russian) **89b:32003**
Straube, Emil J. Power series with integer coefficients in several variables. **89f:32004**
Wiegerinck, Jan Convergence of formal power series and analytic extension. **89c:32004**

Items with secondary classifications in 32A05

Praagman, C. Roots, iterations and logarithms of formal automorphisms. **89j:13006**
Yankov, Chr. L. Power series with coefficients in Grassmann algebra. **89b:16002**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Kruzhilin, N. G. Holomorphic automorphisms of hyperbolic Reinhardt domains. **89d:32002**
Shimizu, Satoru Automorphisms of bounded Reinhardt domains. **89k:32002**
— Automorphisms and equivalence of bounded Reinhardt domains not containing the origin. **89d:32003**
Yin, Wei Ping Invariant metrics on Reinhardt domains and group invariant functions. (Chinese) (Not in MR)

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Agrawal, Om P. (*with* Salinas, Norberto) Sharp kernels and canonical subspaces (revised). **89g:47026**
Cœuré, Gérard (*with* Loeb, Jean-Jacques) Le théorème des tubes de Bochner pour les groupes de Lie. [Bochner's tube theorem for Lie groups] **89e:32018**
Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Proper holomorphic mappings between Reinhardt domains and pseudoellipsoids. **89k:32053**
Ehrenpreis, Leon Reflection, removable singularities, and approximation for partial differential equations. II. **89c:35005**
Gong, Sheng On Reinhardt domains. I. (Chinese) **89c:32043**
Hahn, K. T. (*with* Pflug, Peter) On a minimal complex norm that extends the real Euclidear norm. **89a:32031**
Iordan, Andrei Pseudoconvex domains with peak functions at each point of the boundary. **89c:32045**
Khudaĭberganov, G. The Carathéodory-Fejér problem in $\mathbf{C}^n$. (Russian) **89a:32032**
Krantz, Steven G. Compactness of the $\overline{\partial}$-Neumann operator. **89f:32032**
Loeb, Jean-Jacques *see* **Cœuré, Gérard, 89e:32018**
Manzhikova, N. S. The Weil integral representation and Jacobi bases in $\mathbf{C}^n$. (Russian) **89h:32008**

Marinov, Marin Stefanov The uniqueness set of holomorphic functions in Reinhardt domains. (Russian. English and Bulgarian summaries) **89f:32005**

Mochizuki, Nozomu Inequalities of Fejér-Riesz and Hardy-Littlewood. **89g:32008**

Nannicini, Antonella On the existence of complete Kähler metrics of negative Riemannian curvature bounded away from zero on ellipsoidal domains in $\mathbf{C}^n$. **89a:53079**

Pflug, Peter *see* **Hahn, K. T., 89a:32031**

Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 89k:32053**

Salinas, Norberto *see* **Agrawal, Om P., 89g:47026**

Shimura, Goro Nearly holomorphic functions on Hermitian symmetric spaces. **89b:32044**

32A10 Holomorphic functions

De Bartolomeis, Paolo Holomorphic generators of some ideals in $C^\infty(\overline{D})$. **89e:32002**

Berenstein, Carlos A. (*with* Struppa, Daniele) A remark on: "Convolutors in spaces of holomorphic functions" [*Complex analysis, II* (College Park, Md., 1985–86), 253–275, Lecture Notes in Math., 1276, Springer, Berlin, 1987; MR 89e:32003] by A. Meril and Struppa. **89e:32004**

Berndtsson, Bo $\overline{\partial}_b$ and Carleson type inequalities. **89b:32004**

Grinberg, Eric L. A boundary analogue of Morera's theorem in the unit ball of $\mathbf{C}^n$. **89b:32005**

Korevaar, J. Some $\mathbf{C}^N$ capacities and applications—the lemma on mixed derivatives revisited. (Serbo-Croatian summary) **89a:32003**

Kostochko, N. A. Representation of analytic functions of several complex variables by some function series. (Russian) **89b:32006**

Krantz, Steven G. (*with* Ma, D. W.) Bloch functions on strongly pseudoconvex domains. **89h:32003**

Ma, D. W. *see* **Krantz, Steven G., 89h:32003**

Marinov, Marin Stefanov The uniqueness set of holomorphic functions in Reinhardt domains. (Russian. English and Bulgarian summaries) **89f:32005**

Meril, A. (*with* Struppa, Daniele) Convolutors in spaces of holomorphic functions. **89e:32003**

— *see also* **Berenstein, Carlos A., 89e:32004**

Morzhakov, V. V. On the epimorphy of the convolution operator in convex domains in $\mathbf{C}^l$. **89b:32007**

Schiltz, Dominique Un procédé de localisation de la formule de Cauchy-Fantappiè. (English summary) [A method for the localisation of the Cauchy-Fantappiè formula] **89c:32005**

Shaimkulov, B. A. Reconstruction of holomorphic functions from values on certain sets of uniqueness. (Russian) **89m:32003**

Shamoyan, F. A. Diagonal mapping and representation problems in anisotropic spaces of functions holomorphic in a polydisk. (Russian. Armenian summary) **89d:32004**

Shchekhorskiĭ, A. I. A local theorem for real manifolds. (Russian) **89b:32008**

Struppa, Daniele *see* **Meril, A., 89e:32003** *and* **Berenstein, Carlos A., 89e:32004**

Suzuki, Masaaki The fixed point set and the iterational limits of a holomorphic self-map. **89e:32005**

Tamrazov, P. M. Sharpness of the fundamental bounds of contour-solid theorems. (Russian) **89k:32003**

Wada, Ryoko Holomorphic functions on the complex sphere. **89h:32004**

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Axler, Sheldon (*with* Bourdon, Paul) Finite-codimensional invariant subspaces of Bergman spaces. **89f:46051**

Ball, Joseph A. (*with* Helton, J. William; Sung, Chen Han) Nonlinear solutions of Nevanlinna-Pick interpolation problems. **89e:47043**

Bourdon, Paul *see* **Axler, Sheldon, 89f:46051**

Dai, Wen Hua The Liouville equation on an n-dimensional complex manifold. (Chinese. English summary) **89b:58227**

Helton, J. William *see* **Ball, Joseph A.; et al., 89e:47043**

Izuchi, Keiji A function theoretic proof of Axler's zero multiplier theorem. **89f:46053**

Martin, Mircea An operator theoretic approach to analytic functions into a Grassmann manifold. **89f:47021**

Muradov, V. M. On a connection between the best polynomial approximation of analytic functions of several complex variables and Faber coefficients. (Russian) **89h:41013**

Ohsawa, Takeo On the extension of L^2 holomorphic functions. II. **89d:32031**

Shchekhorskiĭ, A. I. On a local theorem in $\mathbf{C}^n$. (Russian) **89c:32035**

Sung, Chen Han *see* **Ball, Joseph A.; et al., 89e:47043**

32A15 Entire functions

Aliev, I. A. Inequalities of Bernstein type in terms of indicator diagrams of entire functions of several variables. (Russian) **89d:32005**

— (*with* Shafiev, M. F.) A multidimensional analogue of a theorem of Cartwright. (Russian) **89e:32006**

Berenstein, Carlos A. (*with* Struppa, Daniele) Solutions of convolution equations in convex sets. **89c:32006**

Daoud, S. Entire functions represented by Dirichlet series of two complex variables. **89e:32007**

— On the class of entire Dirichlet functions of several complex variables having finite order point. **89e:32008**

— On the space of integral Dirichlet functions of several complex variables. **89e:32009**

Derzhavets, B. A. Localizable submodules in a space of entire functions. (Russian) **89e:32010**

Gentili, Graziano (*with* Struppa, Daniele) Corona problems in spaces of entire functions with growth conditions. **89c:32007**

Logvinenko, V. N. Entire functions of exponential type that are slowly growing along a real hyperplane. (Russian) **89k:32004**

Maergoiz, L. S. The indicator diagram of an entire function of several variables with a nonnegative indicator. **89h:32005**

Mannanov, M. M. Approximation of solutions of a homogeneous equation of convolution type. (Russian) (*see* **89g:30002**)

Meise, Reinhold (*with* Momm, Siegfried; Taylor, B. Alan) Splitting of slowly decreasing ideals in weighted algebras of entire functions. **89b:32009**

Messing, William (*with* Sibuya, Yasutaka) An analogue of Hilbert's Theorem 90 for the ring of entire functions. **89j:32002**

Momm, Siegfried *see* **Meise, Reinhold; et al., 89b:32009**

Morzhakov, V. V. Epimorphism of a convolution operator in convex domains in $\mathbf{C}^n$. (Russian) **89g:32003**

Musin, I. Kh. Solvability of an inhomogeneous equation. (Russian) (*see* **89g:30002**)

Passare, Mikael Residue solutions to holomorphic Cauchy problems. **89j:32003**

Sarkisyan, S. Ts. The order of growth of entire functions of several variables and an estimate for the order of entire solutions of algebraic partial differential equations. (Russian. Armenian summary) **89d:32006**

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Struppa, Daniele *see* **Berenstein, Carlos A., 89c:32006** *and* **Gentili, Graziano, 89c:32007**

Taylor, B. Alan *see* **Meise, Reinhold; et al., 89b:32009**

Wolniewicz, Tomasz M. Independent inner functions in the classical domains. **89b:32010**

Items with secondary classifications in 32A15

Avanissian, Vazgain Fonctionnelles analytiques liées aux polynômes orthogonaux classiques. (English summary) [Analytic functionals associated to classical orthogonal polynomials] **89i:46044**

Berenstein, Carlos A. (*with* Yger, Alain) On Lojasiewicz-type inequalities for exponential polynomials. **89d:30006**

Braun, Rūdiger W. Linear topological structure of closed ideals in weighted algebras of entire functions. **89i:46060**

Deheri, G. M. *see* **Kamthan, P. K., 89j:46024**

Fettweis, A. A new approach to Hurwitz polynomials in several variables. **89d:93030**

Kamthan, P. K. (*with* Deheri, G. M.) Addendum: "Extended classes of analytic functions of several variables" [Libertas Math. **4** (1984), 21–59; MR 86m:46025]. **89j:46024**

Kashiwara, Hiroko Fonctions rationnelles de type (0, 1) sur le plan projectif complexe. [Rational functions of type (0, 1) on the complex projective plane] **89b:14015**

Korobeĭnik, Yu. F. A problem of analytic continuation in $\mathbf{C}^p$. **89k:32029**

Logvinenko, V. N. Equivalence of norms, generated by measures, in Banach spaces of entire functions. **89k:46035**

Meise, Reinhold (*with* Taylor, B. Alan) Each nonzero convolution operator on the entire functions admits a continuous linear right inverse. **89g:47036**

Popenov, S. V. A weighted space of entire functions. (Russian) **89m:46040**

Taylor, B. Alan *see* **Meise, Reinhold, 89g:47036**

Yger, Alain *see* **Berenstein, Carlos A., 89d:30006**

32A17 Normal families

Antonio Andréu, José A. *see* **Romaguera, Salvador, 89i:32002**

Dobrovol′skiĭ, S. M. *see* **Gichev, V. M., 89c:32008**

Gavrilov, V. I. (*with* Zakharyan, V. S.) Conditions for the normality of families of holomorphic mappings. (Russian. Armenian summary) **89h:32006**

Gichev, V. M. (*with* Dobrovol′skiĭ, S. M.) On some characteristic properties of Bloch functions. (Russian) **89c:32008**

Romaguera, Salvador (*with* Antonio Andréu, José A.) $L(f)$-sets for Bloch functions of several complex variables. (Spanish. English summary) **89i:32002**

Zakharyan, V. S. *see* **Gavrilov, V. I., 89h:32006**

Items with secondary classifications in 32A17

Hahn, K. T. Nontangential limit theorems for normal mappings. **89i:32010**

32A20 Meromorphic functions

Items with secondary classifications in 32A20

Dzhrbashyan, M. M. Survey of some achievements of Armenian mathematicians in the theory of integral representations and factorization of analytic functions. (Serbo-Croatian summary) **89g:30063**

32A22 Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}

Hossain, Moqbul On an analogue of the Nevanlinna characteristics of functions of several complex variables. **89h:32007**

32A25 Integral representation

Amar, Éric Estimations, par noyaux, des solutions de l'équation $\overline{\partial}u = f$. (English summary) [Estimates using kernels of the solutions of the equation $\overline{\partial}u = f$] **89c:32009**

Andersson, Mats (*with* Passare, Mikael) A shortcut to weighted representation formulas for holomorphic functions. **89i:32003**

Aomoto, Kazuhiko On the complex Selberg integral. **89g:32004**

Berenstein, Carlos A. (*with* Struppa, Daniele) Small degree solutions for the polynomial Bezout equation. **89g:32005**

Berndtsson, Bo Integral formulas on projective space and the Radon transform of Gindikin-Henkin-Polyakov. **89f:32006**

Dzhrbashyan, M. M. (*with* Karapetyan, A. O.) Integral representations of some classes of functions that are analytic in a Siegel domain. (Russian) **89e:32011**

Fornæss, John Erik (*with* Wiegerinck, Jan) A holomorphic reproducing kernel for Kohn-Nirenberg domains in $\mathbf{C}^2$. **89i:32004**

Hatziafratis, Telemachos E. An integral representation formula for holomorphic functions on analytic varieties. **89g:32006**

— On certain integrals associated to CR-functions. **89m:32004**

Karapetyan, A. O. Integral representations in tube domains. **89i:32005**

— *see also* **Dzhrbashyan, M. M., 89e:32011**

Kolomeitsev, S. V. Solution of some boundary value problems for holomorphic functions of two complex variables. (Russian) **89c:32010**

Liczberski, Piotr Zu Bawrinischen Familien M_G, N_G der komplexwertigen und analytischen Funktionen zwei komplexer Variablen. (Russian and Polish summaries) [On Bavrin's families M_G, N_G of complex-valued and analytic functions of two complex variables] **89m:32005**

Lin, Liang Yu Boundary behaviour for integrals of Cauchy type on a closed piecewise smooth manifold. (Chinese) **89m:32006**

Manzhikova, N. S. The Weil integral representation and Jacobi bases in $\mathbf{C}^n$. (Russian) **89h:32008**

Marzuq, Maher M. H. Integral formulae for holomorphic and pluriharmonic functions on circular star-shaped domains. (Arabic summary) **89f:32007**

Ofman, Salomon La transformation de Radon analytique. (English summary) [The analytic Radon transform] **89m:32007**

Passare, Mikael *see* **Andersson, Mats, 89i:32003**

Shaimkulov, B. A. A generalization of the Bochner-Ono formula. **89d:32007**

Shatalov, V. E. *see* **Sternin, B. Yu., 89c:32011**

Shaw, Mei-Chi Prescribing zeros of functions in the Nevanlinna class on weakly pseudoconvex domains in $\mathbf{C}^2$. **89m:32008**

Sternin, B. Yu. (*with* Shatalov, V. E.) On an integral representation and a related transformation of analytic functions of several complex variables. **89c:32011**

Struppa, Daniele *see* **Berenstein, Carlos A., 89g:32005**

Wiegerinck, Jan *see* **Fornæss, John Erik, 89i:32004**

Yao, Zong Yuan A Bochner-Martinelli integral formula of type I in $\mathbf{C}^n$. (Chinese. English summary) **89c:32012**

Zhong, Tong De The Andreotti-Norguet formula on Stein manifolds and its generalizations. (Chinese. English summary) **89j:32004**

Zinov'ev, B. S. Parametric integral representations along the boundary of a domain in the case of convex n-circular domains. (Russian) **89a:32004**

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Demailly, Jean-Pierre (*with* Laurent-Thiébaut, Christine) Formules intégrales pour les formes différentielles de type (p, q) dans les variétés de Stein. (English summary) [Integral formulas for differential forms of type (p, q) in Stein manifolds] **89g:32023**

Fefferman, Charles (*with* Kohn, Joseph J.) Hölder estimates on domains of complex dimension two and on three-dimensional CR manifolds. **89g:32027**

Kohn, Joseph J. *see* **Fefferman, Charles, 89g:32027**

Laurent-Thiébaut, Christine Sur l'extension des fonctions CR dans une variété de Stein. (English summary) [Extension of CR functions in a Stein manifold] **89j:32020**

— *see also* **Demailly, Jean-Pierre, 89g:32023**

Li, Ming Zhong A Riemann-Hilbert problem for a system of first-order elliptic equations with two unknown functions in a bicylindrical domain. (Chinese) **89c:35060**

Machedon, Matei Szegő kernels on pseudoconvex domains with one degenerate eigenvalue. **89i:32043**

Michel, Joachim Randregularität des $\overline{\partial}$-Problems für stückweise streng pseudokonvexe Gebiete in $\mathbf{C}^n$. [Boundary regularity of the $\overline{\partial}$-problem for piecewise strictly pseudoconvex domains in $\mathbf{C}^n$] **89f:32033**

Shatalov, V. E. *see* **Sternin, B. Yu., 89m:58198**

Sternin, B. Yu. (*with* Shatalov, V. E.) The Laplace-Radon integral transform and its application to the inhomogeneous Cauchy problem in a complex space. **89m:58198**

Tomantschger, Kurt Walter A Bergman type operator for fourth order differential equations. **89e:35032**

Vaillant, Jean Léon Ramifications d'intégrales holomorphes. (English summary) [Ramifications of holomorphic integrals] **89h:32023**

32A27 Local theory of residues [see also 32C30]

Kytmanov, A. M. A formula for the transformation of the Grothendieck residue and some of its applications. **89j:32005**

Saparov, Z. B. Some cases of the calculation of a complete sum of residues in $\mathbf{C}^n$ by expansion in a Laurent series. (Russian) **89k:32005**

Zhdanov, O. N. Calculation of the integrals of rational functions of n variables by means of multiple residues. (Russian) **89d:32008**

Items with secondary classifications in 32A27

Passare, Mikael Residue solutions to holomorphic Cauchy problems. **89j:32003**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

Ding, Shan Rui A proof of Mandelbrojt's fundamental inequality for two variables. (Chinese. English summary) **89j:32006**

Grauert, Hans Meromorphe Äquivalenzrelationen: Anwendungen, Beispiele, Ergänzungen. [Meromorphic equivalence relations: applications, examples, complements] **89h:32009**

Inenaga, Yoshikazu (*with* Nôno, Kiyoharu; Yanagiwara, Hiroki) Quaternionic analysis in $\mathbf{C}^2$. **89m:32009**

Nôno, Kiyoharu *see* **Inenaga, Yoshikazu; et al., 89m:32009**

Rea, C. A global polynomial approximation of continuous functions on maximal, totally real submanifolds of $\mathbf{C}^n$. **89k:32006**

Yanagiwara, Hiroki *see* **Inenaga, Yoshikazu; et al., 89m:32009**

Zhuravlëv, I. V. A multidimensional analogue of the Beltrami equation. **89i:32006**

Items with secondary classifications in 32A30

Èminyan, O. M. Boundary uniqueness theorems for analytic functions of several complex variables. (Russian) **89b:32011**

Freedman, Michael H. (*with* He, Zheng Xu) Factoring the logarithmic spiral. **89j:30026**

He, Zheng Xu *see* **Freedman, Michael H., 89j:30026**

Shapiro, Joel H. Cluster set, essential range, and distance estimates in BMO. **89b:30029**

Sitarski, Ryszard L-analytic starlike and quasi-starlike maps. (Russian and Polish summaries) **89i:30015**

32A35 H^p-spaces [see also 32M15, 42B30, 43A85, 46J15]

Ahern, Patrick (*with* Rudin, Walter) Paley-type gap theorems for H^p-functions on the ba **89k:32007**

— Exceptional sets for holomorphic Sobolev functions. **89i:32007**

Burbea, Jacob Sharp inequalities for holomorphic functions. **89e:32012**

Choe, Boo Rim Cauchy integral equalities and applications. **89m:32010**

Diaz, Katharine Perkins The Szegő kernel as a singular integral kernel on a family of weal pseudoconvex domains. **89d:32009**

Dzhvarsheishvili, A. G. The Carleson measure for several complex variables. (Russian. English and Georgian summaries) **89j:32007**

Garnett, J. B. Corona problems, interpolation problems, and inhomogeneous Cauchy-Riemann equations. **89d:32010**

Genchev, Todor Some applications of the Hardy-Littlewood inequality for Fourier integra **89h:32010**

Hou, Xiang Dong The Bloch functions in the unit ball of $\mathbf{C}^n$. (Chinese) **89g:32007**

Mochizuki, Nozomu Inequalities of Fejér-Riesz and Hardy-Littlewood. **89g:32008**

Peetre, Jaak Some unsolved problems. **89c:32013**

Ramey, Wade (*with* Russo, Paula) Behavior of functions in BMOA and VMOA near a $(2n-2)$-dimensional submanifold. **89f:32008**

Rudin, Walter *see* **Ahern, Patrick, 89k:32007**

Russo, Paula *see* **Ramey, Wade, 89f:32008**

Saitoh, Saburou Fourier-Laplace transforms and the Bergman spaces. **89c:32014**

Sampieri, Umberto Traces of functions in Bergman weighted spaces on tubular domains. (Italian summary) **89i:32008**

Shi, Ji Huai On the rate of growth of the means M_p of holomorphic and pluriharmonic functions on bounded symmetric domains of $\mathbf{C}^n$. **89d:32011**

Shvedenko, S. V. Multidimensional analogues of Hardy and Littlewood estimates for Tay coefficients of functions of classes H^p. **89k:32008**

Wang, Jian The value distribution and BMO domains of a class of analytic functions in several variables. (Chinese. English summary) **89h:32011**

Items with secondary classifications in 32A35

Agrawal, Om P. (*with* Salinas, Norberto) Sharp kernels and canonical subspaces (revised **89g:47026**

Chang, Sun-Yung A. Extremal functions in a sharp form of Sobolev inequality. **89e:5306**

Dupain, Y. Fonctions intérieures dans la boule unité de $\mathbf{C}^n$ dont les fonctions traces sont aussi intérieures. [Inner functions in the unit ball of $\mathbf{C}^n$ whose trace functions are also inner] **89e:32013**

Dzhrbashyan, M. M. Survey of some achievements of Armenian mathematicians in the theory of integral representations and factorization of analytic functions. (Serbo-Croat summary) **89g:30063**

Globevnik, Josip (*with* Stout, Edgar Lee) Analytic discs with rectifiable simple closed cur as ends. **89g:32009**

Goodrich, R. K. (*with* Gustafson, K. E.) Spectral estimation and factorization in higher dimensions. **89c:42021**

Gustafson, K. E. *see* **Goodrich, R. K., 89c:42021**

Izuchi, Keiji Unitary equivalence of invariant subspaces in the polydisk. **89g:46049**

Kazaryan, K. S. Summability of generalized Fourier series and Dirichlet's problem in $L^p(d\mu)$ and weighted H^p-spaces $(p > 1)$. (Russian summary) **89b:42023**

Krotov, V. G. Boundary behavior of fractional integrals of holomorphic functions in the unit ball in $\mathbf{C}^N$. **89i:32011**

Nagy, G. Stable rank of C^*-algebras of Toeplitz operators on polydisks. **89i:47045**

Saitoh, Saburou A counterexample in the Pick-Nevanlinna interpolation problem. **89h:30053**

Salinas, Norberto *see* **Agrawal, Om P., 89g:47026**

Shapiro, Joel H. Cluster set, essential range, and distance estimates in BMO. **89b:30029**

Shaw, Mei-Chi Prescribing zeros of functions in the Nevanlinna class on weakly pseudoconvex domains in $\mathbf{C}^2$. **89m:32008**

Shen, You Feng Characterizations of $H^p(K^n)$ space. (Chinese summary) **89m:46077**

Shi, Ji Huai The Mackey topology on Hardy spaces and Bergman spaces in several compl variables. (Chinese) (Not in MR)

— The spaces $H^p(B_n)$, $0 < p < 1$, and $B_{pq}(B_n)$, $0 < p < q < 1$, are not locally convex. **89g:46048**

Stout, Edgar Lee *see* **Globevnik, Josip, 89g:32009**

Thomas, Pascal J. Hardy space interpolation in the unit ball. **89a:46117**

Wolniewicz, Tomasz M. Independent inner functions in the classical domains. **89b:32010**

Zhu, Ke He The Bergman spaces, the Bloch space, and Gleason's problem. **89j:46025**

32A40 Boundary behavior

Ahern, Patrick (*with* Bruna, Joaquim) On holomorphic functions in the ball with absolut continuous boundary values. **89h:32012**

Aleksandrov, A. B. Inner functions: results, methods, problems. **89c:32015**

Beatrous, Frank (*with* Li, Song Ying) A Plessner decomposition along transverse curves. **89i:32009**

Bruna, Joaquim *see* **Ahern, Patrick, 89h:32012**

Chollet, Anne-Marie Propriétés de recouvrement des sous-ensembles de la frontière d'un domaine strictement pseudo-convexe. [Covering properties of subsets of the boundary o a strictly pseudoconvex domain] **89h:32013**

Coupet, Bernard Régularité de fonctions holomorphes sur des wedges. [Regularity of holomorphic functions on wedges] **89m:32011**

Dovbush, P. V. On the existence of admissible limits of functions of several complex variables. (Russian) **89d:32012**

Dupain, Y. Fonctions intérieures dans la boule unité de $\mathbf{C}^n$ dont les fonctions traces sont aussi intérieures. [Inner functions in the unit ball of $\mathbf{C}^n$ whose trace functions are also inner] **89e:32013**

Eminyan, O. M. Boundary uniqueness theorems for analytic functions of several complex variables. (Russian) **89b:32011**

Globevnik, Josip (*with* Stout, Edgar Lee) Analytic discs with rectifiable simple closed curves as ends. **89g:32009**

Hahn, K. T. Nontangential limit theorems for normal mappings. **89i:32010**

— (*with* Singman, David) Boundary behavior of invariant Green's potentials on the unit ball in $\mathbf{C}^n$. **89j:32008**

Khasanov, S. V. *see* **Pinchuk, S. I., 89f:32009**

Khurumov, Yu. V. On limit values of holomorphic functions on submanifolds. (Russian) **89b:32012**

Krotov, V. G. Boundary behavior of fractional integrals of holomorphic functions in the unit ball in $\mathbf{C}^N$. **89i:32011**

Kytmanov, A. M. (*with* Nikitina, T. N.) Boundary sets of uniqueness for pluriharmonic functions. **89h:32014**

Li, Song Ying *see* **Beatrous, Frank, 89i:32009**

Nikitina, T. N. *see* **Kytmanov, A. M., 89h:32014**

Pinchuk, S. I. (*with* Khasanov, S. V.) Asymptotically holomorphic functions and their applications. **89f:32009**

Sergeev, A. G. On the behavior of the solutions of the $\overline{\partial}$-equation on the boundary of the future tube. **89f:32010**

Singman, David *see* **Hahn, K. T., 89j:32008**

Stout, Edgar Lee *see* **Globevnik, Josip, 89g:32009**

Ullrich, David C. A Bloch function in the ball with no radial limits. **89k:32009**

Znamenskaya, L. N. Generalization of the theorem of F. and M. Riesz and the existence of the multidimensional Carleman formula. **89k:32010**

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Ahern, Patrick Exceptional sets for holomorphic Sobolev functions. **89i:32007**

Amar, Éric Geometric regularity versus functional regularity. **89c:32041**

de Bartolomeis, Paolo Holomorphic generators of some ideals in $C^\infty(\overline{D})$. **89e:32002**

Berenstein, Carlos A. (*with* Struppa, Daniele) A remark on: "Convolutors in spaces of holomorphic functions" [*Complex analysis, II* (College Park, Md., 1985–86), 253–275, Lecture Notes in Math., 1276, Springer, Berlin, 1987; MR 89e:32003] by A. Meril and Struppa. **89e:32004**

Khudaĭberganov, G. A formula of Carleman for functions of matrices. **89d:30038**

Lin, Liang Yu Boundary behaviour for integrals of Cauchy type on a closed piecewise smooth manifold. (Chinese) **89m:32006**

Meril, A. (*with* Struppa, Daniele) Convolutors in spaces of holomorphic functions. **89e:32003**

— *see also* **Berenstein, Carlos A., 89e:32004**

Odinokov, O. V. Well-posedness of the Cauchy problem for operators with smooth symbols. **89m:35005**

Shchekhorskiĭ, A. I. On a local theorem in $\mathbf{C}^n$. (Russian) **89c:32035**

Struppa, Daniele *see* **Meril, A., 89e:32003** *and* **Berenstein, Carlos A., 89e:32004**

Xu, Quan Hua On representations of families of distributions. (Chinese) **89d:46047**

32A45 Hyperfunctions [see also 46F15]

Ito, Yoshifumi Theory of (vector valued) Fourier hyperfunctions. Their realization as boundary values of (vector valued) slowly increasing holomorphic functions. II. **89a:32005**

Items with secondary classifications in 32A45

DiPerna, Ronald (*with* Lions, Pierre-Louis) Solutions globales d'équations du type Vlasov-Poisson. (English summary) [Global solutions of Vlasov-Poisson type equations] **89k:35202**

Kaneko, Akira On Hartogs type continuation theorem for regular solutions of linear partial differential equations with constant coefficients. **89m:35043**

Lions, Pierre-Louis *see* **DiPerna, Ronald, 89k:35202**

Xu, Quan Hua On representations of families of distributions. (Chinese) **89d:46047**

32A99 None of the above, but in this section

Dzhakov, P. (*with* Mitreva, M.) Linear operators that solve the Hermite problem on an algebraic variety in $\mathbf{C}^n$. (Russian) **89d:32013**

Mitreva, M. *see* **Dzhakov, P., 89d:32013**

Thomas, Pascal J. Tents and interpolating sequences in the unit ball. **89c:32016**

Items with secondary classifications in 32A99

Nastasiev, P. P. Isomorphisms of the space of analytic functions of several variables that commute with powers of integration operators. (Ukrainian. Russian summary) **89h:46037**

Stefanescu, Ion Sabba Zero trajectories and the problem of the reconstruction of the phase. **89m:81184**

Udagawa, Seiichi Pluriharmonic maps and minimal immersions of Kähler manifolds. **89e:53092**

32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebra and generalizations, preparation theorems

(Akhiezer, D. N.) *see* **Grauert, Hans, 89j:32009**

Ansemil, J. M. Locally determining sequences for analytic functions. (Spanish. English summary) **89a:32006**

Grauert, Hans (*with* Remmert, R.) ★ Аналитические локальные алгебры. (Russian) [Analytic local algebras] **89j:32009**

Harris, Gary Alvin Local algebraic and holomorphic invariants for a real-analytic surface in complex space. **89a:32007**

(Onishchik, A. L.) *see* **Grauert, Hans, 89j:32009**

Remmert, R. *see* **Grauert, Hans, 89j:32009**

(Riemenschneider, Oswald) *see* **Grauert, Hans, 89j:32009**

Schuster, H.-W. (*with* Vogt, Axel) Bad extensions of analytic algebra. **89b:32013**

Vogt, Axel *see* **Schuster, H.-W., 89b:32013**

Items with secondary classifications in 32B05

Castro, Francisco Calculs effectifs pour les idéaux d'opérateurs différentiels. [Effective calculations for ideals of differential operators] **89a:32010**

Dales, H. G. Local Banach algebras as Henselian rings. **89d:46051**

Hansen, Vagn Lundsgaard Algebra and topology of Weierstrass polynomials. **89b:30004**

Kucharz, W. Analytic and differentiable functions vanishing on an algebraic set. **89b:32014**

Lipshitz, L. Isolated points on fibers of affinoid varieties. **89f:32057**

Strouse, Elizabeth Embedding the algebra of formal power series in several variables into a Banach algebra. **89e:46056**

Tougeron, Jean-Claude Sur certaines algèbres de fonctions analytiques. [On certain algebras of analytic functions] **89b:32016**

32B10 Germs of analytic sets

Hossain, Md. Fazlee Metric properties in analytic set. **89h:32015**

Ruiz, Jesús M. Basic properties of real analytic and semianalytic germs. **89h:32016**

Items with secondary classifications in 32B10

Beloshapka, V. K. Finite-dimensionality of the group of automorphisms of a real analytic surface. **89e:32040**

(King, Henry Churchill) *see* **Reid, Les, 89a:57040**

Reid, Les A correction to a paper of H. King: "Real analytic germs and their varieties at isolated singularities" [Invent. Math. **37** (1976), no. 3, 193–199; MR **54** #13114]. **89a:57040**

32B15 Analytic subsets of affine space

Acquistapace, Francesca (*with* Broglia, Fabrizio) Essential coverings for stratified sets with only isolated singularities. **89c:32017**

Broglia, Fabrizio *see* **Acquistapace, Francesca, 89c:32017**

Chirka, E. M. *see* **Pinchuk, S. I., 89d:32014**

Guaraldo, Francesco An approximation problem for manifolds. (Italian. English summary) **89m:32012**

Kucharz, W. Analytic and differentiable functions vanishing on an algebraic set. **89b:32014**

Pinchuk, S. I. (*with* Chirka, E. M.) On the symmetry principle for analytic sets. **89d:32014**

Items with secondary classifications in 32B15

Cucker, Felipe Sur les anneaux de sections globales du faisceau structural sur le spectre réel. (English summary) [On the global section rings of the structure sheaf on the real spectrum] **89b:14033**

Shiota, Masahiro ★ Nash manifolds. **89b:58011**

32B20 Semi-analytic sets and subanalytic sets

Acquistapace, Francesca Hauptvermutung sous-analytique. [Subanalytic Hauptvermutung] **89c:32018**

Bierstone, Edward (*with* Milman, Pierre D.) Semianalytic and subanalytic sets. **89k:32011**

Denkowska, Zofia (*with* Wachta, Krystyna) Une construction de la stratification sous-analytique avec la condition (w). (English and Russian summaries) [A construction of a subanalytic stratification under the condition (w)] **89m:32013**

— Stratifications sous-analytiques. [Subanalytic stratifications] **89m:32014**

Fernandez, Fernando (*with* Recio Muñiz, Tomás J.; Ruiz, Jesús M.) Generalized Thom's lemma in semianalytic geometry. (Russian summary) **89b:32015**

Kurdyka, Krzysztof Des applications du théorème de Puiseux dans la théorie des ensembles semi-analytiques dans $\mathbf{R}^2$. [Applications of the Puiseux theorem in the theory of semi-analytic sets in $\mathbf{R}^2$] **89h:32017**

— Points réguliers d'un sous-analytique. (English summary) [Regular points of a subanalytic set] **89g:32010**

— (*with* Raby, Gilles) Densité et cône tangent à un sous-analytique. (English summary) [Density and tangent cone of a subanalytic set] **89j:32010**

Łojasiewicz, Stanisław (*with* Stasica, Jacek; Wachta, Krystyna) Stratifications sous-analytiques. Condition de Verdier. (English and Russian summaries) [Subanalytic stratifications. Verdier's condition] **89g:32011**

Milman, Pierre D. *see* **Bierstone, Edward, 89k:32011**

Parusiński, Adam Regular projections for sub-analytic sets. (French summary) **89k:32012**

Raby, Gilles *see* **Kurdyka, Krzysztof, 89j:32010**

Recio Muñiz, Tomás J. *see* **Fernandez, Fernando; et al., 89b:32015**

Ruiz, Jesús M. *see* **Fernandez, Fernando; et al., 89b:32015**

Stasica, Jacek *see* **Łojasiewicz, Stanisław; et al., 89g:32011**

Szafraniec, Zbigniew On the number of branches of a 1-dimensional semianalytic set. **89i:32012**

Wachta, Krystyna *see* **Łojasiewicz, Stanisław; et al., 89g:32011** *and* **Denkowska, Zofia, 89m:32013**

Waliszewski, W. Quasi-algebraic representability of sets in $\mathbf{R}^n$. **89m:32015**

Items with secondary classifications in 32B20

Andradas, C. (*with* Bröcker, L.; Ruiz, Jesús M.) Minimal generation of basic open semianalytic sets. **89f:32016**

Bröcker, L. *see* **Andradas, C.; et al., 89f:32016**

Denef, J. (*with* van den Dries, Lou) p-adic and real subanalytic sets. **89k:03034**

van den Dries, Lou *see* **Denef, J., 89k:03034**
Ferrarotti, Massimo Some results about integration on regular stratified sets. **89i:58008**
Gamboa, J. M. Un exemple d'ensemble constructible à adhérence non constructible. (English summary) [An example of a constructible set with nonconstructible closure] **89f:32015**
Hossain, Md. Fazlee Metric properties in analytic set. **89h:32015**
Kurdyka, Krzysztof (*with* Rusek, Kamil) Surjectivity of certain injective semialgebraic transformations of $\mathbf{R}^n$. **89m:32018**
Lipshitz, L. Isolated points on fibers of affinoid varieties. **89f:32057**
Risler, Jean-Jacques Propriétés métriques des ensembles semi-algébriques réels et complexité additive. [Metric properties of real semi-algebraic sets and additive complexity] **89c:14036**
Ruiz, Jesús M. Basic properties of real analytic and semianalytic germs. **89h:32016**
— *see also* **Andradas, C.; et al., 89f:32016**
Rusek, Kamil *see* **Kurdyka, Krzysztof, 89m:32018**
Shiota, Masahiro Piecewise linearization of real-valued subanalytic functions. **89j:32011**
Sussmann, H. J. A weak regularity theorem for real analytic optimal control problems. **89h:49034**
Szafraniec, Zbigniew On the Euler characteristic of complex algebraic varieties. **89d:14030**
Teissier, Bernard Résumé sur la triangulation des morphismes sous-analytiques. [Survey of the triangulation of subanalytic morphisms] **89e:32014**

32B25 Triangulation and related questions

Shiota, Masahiro Piecewise linearization of real-valued subanalytic functions. **89j:32011**
Teissier, Bernard Résumé sur la triangulation des morphismes sous-analytiques. [Survey of the triangulation of subanalytic morphisms] **89e:32014**

Items with secondary classifications in 32B25

Acquistapace, Francesca Hauptvermutung sous-analytique. [Subanalytic Hauptvermutung] **89c:32018**
Parusiński, Adam Regular projections for sub-analytic sets. (French summary) **89k:32012**
Tognoli, Alberto Any compact differentiable submanifold of $\mathbf{R}^n$ has an algebraic approximation in $\mathbf{R}^n$. **89i:14016**

32B30 Local singularities [see also 14B05, 32C40, 32C42]

Barlet, D. Interaction de strates consécutives pour les cycles évanescents. (English summary) [Interaction of consecutive strata for vanishing cycles] **89f:32011**
— (*with* Varchenko, A. N.) Around the intersection form of an isolated singularity of hypersurface. **89j:32012**
Berger, Robert W. On the torsion of the differential module of a curve singularity. **89j:32013**
Bruce, James William (*with* Roberts, R. M.) Critical points of functions on analytic varieties. **89c:32019**
Chermnykh, S. V. Normal forms of holomorphic mappings, differential equations and infinite matrices. (Russian) **89h:32018**
Delgado de la Mata, Félix On the irreducible components of the generic polar curve of a plane curve singularity with several branches. (Spanish. English summary) **89j:32014**
Dimca, A. On analytic abelian coverings. **89c:32020**
Goryunov, V. V. Projections and vector fields that are tangent to the discriminant of a complete intersection. **89i:32013**
Hamm, Helmut A. Invariants of weighted homogeneous singularities. **89j:32015**
Henry, Jean-Pierre Georges (*with* Merle, M.) Conditions de régularité et éclatements. (English summary) [Regularity conditions and blowings up] **89d:32015**
Herman, Michael-R. Recent results and some open questions on Siegel's linearization theorem of germs of complex analytic diffeomorphisms of $\mathbf{C}^n$ near a fixed point. **89k:32013**
Ishii, Shihoko Isolated Q-Gorenstein singularities of dimension three. **89d:32016**
Karras, Ulrich Equimultiplicity of deformations of constant Milnor number. **89f:32012**
Kersken, M. Ein Regularitätskriterium für analytische Algebren. [A regularity criterion for analytic algebras] **89k:32014**
Lê Dũng Tráng Courbes polaires et résolution des courbes planes. [Polar curves and resolution of plane curves] **89f:32013**
— Polyèdres évanescents et effondrements. [Vanishing polyhedra and collapsings] **89h:32019**
Loeser, François Fonctions $|f|^s$, théorie de Hodge et polynômes de Bernstein-Sato. [The functions $|f|^s$, Hodge theory and Bernstein-Sato polynomials] **89d:32017**
— Évaluation d'intégrales et théorie de Hodge. [Evaluation of integrals, and Hodge theory] **89a:32008**
Massey, David B. The Lê-Ramanujam problem for hypersurfaces with one-dimensional singular sets. **89k:32015**
— A reduction theorem for the Zariski multiplicity conjecture. **89k:32016**
Merle, M. *see* **Henry, Jean-Pierre Georges, 89d:32015**
Pellikaan, Ruud Finite determinacy of functions with nonisolated singularities. **89i:32014**
Roberts, R. M. *see* **Bruce, James William, 89c:32019**
Saeki, Osamu Topological invariance of weights for weighted homogeneous isolated singularities in $\mathbf{C}^3$. **89k:32017**
van Straten, D. On the Betti numbers of the Milnor fibre of a certain class of hypersurface singularities. **89d:32018**
Teodosiu, Gabi A class of analytic coverings ramified over $u^3 = v^2$. **89m:32016**
Varchenko, A. N. Period mapping and discriminant. **89f:32014**
— *see also* **Barlet, D., 89j:32012**
Wall, C. T. C. Functions on quotient singularities. **89c:32021**
Yau, Stephen S.-T. Classification of Jacobian ideals invariant by $\mathrm{sl}(2, \mathbf{C})$ actions. **89g:32012**

Items with secondary classifications in 32B30

Aleksandrov, A. G. The de Rham complex of nonisolated singularities. **89h:58021**
Arnol'd, V. I. (*with* Guseĭn-Zade, S. M.; Varchenko, A. N.) ★ Singularities of differentiable maps. Vol. II. **89g:58024**
Bakhtin, V. I. The topological normal forms of metamorphoses of caustics of the series D_μ. (Russian) **89j:58009**
Brenton, Lawrence (*with* Hill, Richard) On the Diophantine equation $1 = \sum 1/n_i + 1/\prod n_i$ and a class of homologically trivial complex surface singularities. **89d:32023**
Briançon, J. (*with* Granger, M.; Maisonobe, Philippe) Le nombre de modules du germe de courbe plane $x^a + y^b = 0$. [The number of moduli of the plane curve germ $x^a + y^b = 0$] **89c:14001**
Cassou-Noguès, Pierrette Étude du comportement du polynôme de Bernstein lors d'une déformation à μ-constant de $X^a + Y^b$ avec $(a, b) = 1$. [Study of the behavior of the Bernstein polynomial under a μ-constant deformation of $X^a + Y^b$, with $(a, b) = 1$] **89k:32042**
Chislenko, Yu. S. Decompositions of simple singularities of real functions. **89m:58023**
Durfee, Alan H. (*with* Hain, Richard M.) Mixed Hodge structures on the homotopy of links. **89c:14012**
Ebeling, Wolfgang ★ The monodromy groups of isolated singularities of complete intersections. **89d:32051**
— Vanishing lattices and monodromy groups of isolated complete intersection singularities. **89b:14003**
Edwards, Sarah Ann (*with* Wall, C. T. C.) Nets of quadrics and deformations of $\Sigma^{3(3)}$ singularities. **89i:58011**
Flenner, Hubert Extendability of differential forms on nonisolated singularities. **89j:14001**
Granger, M. *see* **Briançon, J.; et al., 89c:14001**
Granja Barón, Angel Plane analytic curves with contact in the Apéry basis. (Spanish. English summary) **89k:14050**
Guseĭn-Zade, S. M. *see* **Arnol'd, V. I.; et al., 89g:58024**
Hain, Richard M. *see* **Durfee, Alan H., 89c:14012**
de la Harpe, Pierre Introduction to knot and link polynomials. **89m:57004**
Hauser, Herwig (*with* Müller, Gerd) Harmonic and dissonant singularities. **89e:32016**
Herrmann, Manfred (*with* Ikeda, Shin; Orbanz, U.) ★ Equimultiplicity and blowing up. **89g:13012**
Hill, Richard *see* **Brenton, Lawrence, 89d:32023**
Ikeda, Shin *see* **Herrmann, Manfred; et al., 89g:13012**
Il'yuta, G. G. On the Coxeter transform of an isolated singularity. (Russian) **89h:32026**
Jambu, Michel Yves Sur l'algèbre d'Orlik-Solomon. (English summary) [On the algebra of Orlik-Solomon] **89f:32023**
Janeczko, Stanisław (*with* Żołądek, Henryk) On singular images of Lagrangian submanifolds. (Russian summary) **89a:58041**
Kühnel, Wolfgang Minimal triangulations of Kummer varieties. **89a:57028**
Lê Dũng Tráng (*with* Teissier, Bernard) Limites d'espaces tangents en géométrie analytique. [Limits of tangent spaces in analytic geometry] **89m:32025**
Libgober, A. Fundamental groups of the complements to plane singular curves. **89e:14028**
— On divisibility properties of braids associated with algebraic curves. **89m:57007**
Lipkovski, Aleksandar Newton polyhedra and irreducibility. **89g:14003**
Long, D. D. On the linear representation of braid groups. **89h:20054**
Maisonobe, Philippe *see* **Briançon, J.; et al., 89c:14001**
(Montaldi, J.) *see* **Arnol'd, V. I.; et al., 89g:58024**
(Moonen, B.) *see* **Herrmann, Manfred; et al., 89g:13012**
Morales, Marcelo A note about plurigenera. **89h:14009**
Müller, Gerd *see* **Hauser, Herwig, 89e:32016**
Neumann, Walter D. (*with* Rudolph, Lee) Unfoldings in knot theory. **89j:57017a**
— (*with* Rudolph, Lee) Corrigendum: "Unfoldings in knot theory". **89j:57017b**
Oka, Mutsuo[1] On the stratification of good hypersurfaces. **89k:32025**
Orbanz, U. *see* **Herrmann, Manfred; et al., 89g:13012**
(Porteous, Hugh) *see* **Arnol'd, V. I.; et al., 89g:58024**
Poston, Tim (*with* Stewart, Ian) The cross-ratio foliation of binary quartic forms. **89i:58013**
Riemenschneider, Oswald ★ Platonische Zahlentripel als Indikatoren verborgener Beziehungen zwischen einfachen mathematischen Objekten. (German) [Platonic number triples as indicators of hidden relations between simple mathematical objects] **89e:00001**
Rudolph, Lee *see* **Neumann, Walter D., 89j:57017a** *and* **89j:57017b**
Runge, Bernhard Quasihomogeneous singularities. **89k:14002**
Sabbah, C. D-modules et cycles évanescents (d'après B. Malgrange et M. Kashiwara). [D-modules and vanishing cycles (following B. Malgrange and M. Kashiwara)] **89b:32020**
Saeki, Osamu Cobordism classification of knotted homology 3-spheres in S^5. **89g:57033**
Sapronov, Yu. I. Corner singularities and multidimensional folds. **89h:32039**
Schappert, Albert A characterisation of strictly unimodular plane curve singularities. **89g:14017**
Shubladze, M. Sh. On the homotopy type of the complement to the Milnor fiber of an isolated singularity. (Russian. English and Georgian summaries) **89c:32028**
Smith, Roy Campbell (*with* Varley, Robert) Gauss maps and first order deformations of singular hypersurfaces. **89h:14002**
Steenbrink, J. Mixed Hodge structures and singularities: a survey. **89c:14004**
Stewart, Ian *see* **Poston, Tim, 89i:58013**
Szafraniec, Zbigniew On the number of branches of a 1-dimensional semianalytic set. **89i:32012**
Szczepanski, Susan Cobordism of algebraic knots. **89k:57047**
Teissier, Bernard *see* **Lê Dũng Tráng, 89m:32025**
Varchenko, A. N. The image of period mappings for simple singularities. (Russian) **89j:32028a**
— Image of period mapping for simple singularities. **89j:32028b**
— *see also* **Arnol'd, V. I.; et al., 89g:58024**
Varley, Robert *see* **Smith, Roy Campbell, 89h:14002**
Wall, C. T. C. *see* **Edwards, Sarah Ann, 89i:58011**
Wunram, Jürgen Reflexive modules on quotient surface singularities. **89g:14029**
Żołądek, Henryk *see* **Janeczko, Stanisław, 89a:58041**

32B99 None of the above, but in this section

Bochnak, J. (*with* Kucharz, W.) Nonisomorphic algebraic structures on smooth manifolds. **89d:32019**

Kucharz, W. *see* **Bochnak, J., 89d:32019**

Loboda, A. V. Generating real-analytic manifolds of codimension 2 in $\mathbf{C}^4$ and biholomorphic mappings of them. (Russian) **89k:32018**

Items with secondary classifications in 32B99

Namba, Makoto ★ Branched coverings and algebraic functions. **89d:14020**

Wu, Xiao Long A case of the Jacobian conjecture. **89m:13003**

32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14G30, 58A07]

Andradas, C. (*with* Bröcker, L.; Ruiz, Jesús M.) Minimal generation of basic open semianalytic sets. **89f:32016**

Bröcker, L. *see* **Andradas, C.; et al., 89f:32016**

Cucker, Felipe Fonctions de Nash sur les variétés affines. (English summary) [Nash functions on affine varieties] **89m:32017**

Gamboa, J. M. Un exemple d'ensemble constructible à adhérence non constructible. (English summary) [An example of a constructible set with nonconstructible closure] **89f:32015**

Hanges, Nicholas The missing first integral. **89j:32016**

Kurdyka, Krzysztof (*with* Rusek, Kamil) Surjectivity of certain injective semialgebraic transformations of $\mathbf{R}^n$. **89m:32018**

Ruiz, Jesús M. *see* **Andradas, C.; et al., 89f:32016**

Rusek, Kamil *see* **Kurdyka, Krzysztof, 89m:32018**

Tougeron, Jean-Claude Sur certaines algèbres de fonctions analytiques. [On certain algebras of analytic functions] **89b:32016**

Items with secondary classifications in 32C05

Bando, Shigetoshi (*with* Kobayashi, Ryoichi) Ricci-flat Kähler metrics on affine algebraic manifolds. **89k:32055**

Guaraldo, Francesco An approximation problem for manifolds. (Italian. English summary) **89m:32012**

Izuchi, Keiji The one-radius theorem is not true for bounded real-analytic functions. **89h:26022**

Jaramillo, J. A. Bounded real-analytic submanifolds of Banach spaces. **89m:58016**

(King, Henry Churchill) *see* **Reid, Les, 89a:57040**

Kobayashi, Ryoichi *see* **Bando, Shigetoshi, 89k:32055**

Lipshitz, L. Isolated points on fibers of affinoid varieties. **89f:32057**

Pasini, Leonardo Hardy fields in several variables. (Italian summary) **89g:12005**

— Generalized Hardy fields in several variables. **89k:12004**

Reid, Les A correction to a paper of H. King: "Real analytic germs and their varieties at isolated singularities" [Invent. Math. 37 (1976), no. 3, 193–199; MR **54** #13114]. **89a:57040**

Veloso, J. (*with* Verderesi, J.) Three-dimensional Cauchy-Riemann manifolds. **89b:32024**

Verderesi, J. *see* **Veloso, J., 89b:32024**

32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Duchamp, T. (*with* Kalka, Morris) Invariants of complex foliations and the Monge-Ampère equation. **89h:32020**

Greene, Brian R. (*with* Kirklin, Kelley H.) On the equivalence of the two most favoured Calabi-Yau compactifications. **89b:32017**

Hasegawa, Keizo Minimal models of nilmanifolds. **89i:32015**

Johnson, F. E. A. (*with* Rees, E. G.) On the fundamental group of a complex algebraic manifold. **89i:32016**

Kalka, Morris *see* **Duchamp, T., 89h:32020**

Kirklin, Kelley H. *see* **Greene, Brian R., 89b:32017**

Rees, E. G. *see* **Johnson, F. E. A., 89i:32016**

Siu, Yum Tong ★ Lectures on Hermitian-Einstein metrics for stable bundles and Kähler-Einstein metrics. **89d:32020**

Umehara, Masaaki Diastases and real analytic functions on complex manifolds. **89m:32019**

Wong, Pit-Mann Complex Monge-Ampère equation and related problems. **89c:32022**

Items with secondary classifications in 32C10

Adimoolam, C. Calabi-Yau manifolds. **89f:32054**

Babakhanian, Ari (*with* Hironaka, Heisuke) On the complex Grassmann manifold. **89m:14028**

Bando, Shigetoshi (*with* Mabuchi, Toshiki) Uniqueness of Einstein Kähler metrics modulo connected group actions. **89c:53029**

Bouyakoub, Abdelkader Sur les fibrés principaux de dimension 4, en tores, munis de structures symplectiques invariantes et leurs structures complexes. (English summary) [On 4-dimensional principal torus bundles having invariant symplectic structures, and their complex structures] **89f:53054**

Boyer, Charles P. A note on hyper-Hermitian four-manifolds. **89c:53049**

Bryant, Robert L. Surfaces in conformal geometry. **89m:53102**

— (*with* Harvey, Reese) Submanifolds in hyper-Kähler geometry. **89m:53090**

Catlin, David W. A Newlander-Nirenberg theorem for manifolds with boundary. **89j:32026**

Cherrier, P. Équations de Monge-Ampère sur les variétés hermitiennes compactes. (English summary) [Monge-Ampère equations on compact Hermitian manifolds] **89d:58131**

Cœuré, Gérard Structure kählerienne sur les variétés homogènes semi-simples. [Kählerian structure on semisimple homogeneous manifolds] **89a:32037**

Cordero, Luis A. (*with* Fernández, Marisa; de León, Manuel) Examples of compact complex manifolds with no Kähler structure. **89h:53082**

Cvetič, Mirjam Exact construction of (0, 2) Calabi-Yau manifolds. **89a:53052**

Dillen, Franki Locally symmetric complex affine hypersurfaces. **89k:53009**

Ellis, Jonathan Richard (*with* Enqvist, K.; Kalara, S.; Nanopoulos, D. V.; Olive, K. A.) Phenomenological studies of rank-5 Calabi-Yau models. **89f:81259**

Enqvist, K. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

Fernández, Marisa *see* **Cordero, Luis A.; et al., 89h:53082**

Fulton, William On the topology of algebraic varieties. **89c:14027**

Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. I. Kähler and self-dual Yang-Mills cases. **89i:53053**

— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. II. Hyper-Kähler case. **89i:53054**

Gindikin, S. G. A construction of hyper-Kähler metrics. (Russian) **89c:53030**

Green, Paul S. (*with* Hübsch, Tristan) Calabi-Yau hypersurfaces in products of semi-ample surfaces. **89c:14065**

Guest, M. A. (*with* Pressley, A. N.) Holomorphic curves in loop groups. **89i:58016**

Gurjar, R. V. (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. I. **89k:14035**

Harvey, Reese *see* **Bryant, Robert L., 89m:53090**

Hironaka, Heisuke *see* **Babakhanian, Ari, 89m:14028**

Hübsch, Tristan *see* **Green, Paul S., 89c:14065**

Ivanov, Evgeniĭ Alekseevich^2 *see* **Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Kalara, S. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

de León, Manuel *see* **Cordero, Luis A.; et al., 89h:53082**

Levi, Roni N. The Riemann-Roch theorem for complex spaces. **89d:32065**

Mabuchi, Toshiki Einstein-Kähler forms, Futaki invariants and convex geometry on toric Fano varieties. **89e:53074**

— *see also* **Bando, Shigetoshi, 89c:53029**

Mok, Ngaiming The uniformization theorem for compact Kähler manifolds of nonnegative holomorphic bisectional curvature. **89d:53115**

Nakayama, Noboru The singularity of the canonical model of compact Kähler manifolds. **89g:32045**

Nannicini, Antonella On the existence of complete Kähler metrics of negative Riemannian curvature bounded away from zero on ellipsoidal domains in $\mathbf{C}^n$. **89a:53079**

Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

Némethi, András Lefschetz theory for complex affine varieties. **89k:14031**

Novikov, S. P. Analytical theory of homotopy groups. **89k:55027**

O'Brian, N. R. Geometry of twisting cochains. **89h:58176**

Ofman, Salomon Residu et dualité. [Residues and duality] **89m:32024**

Ogievetskiĭ, V. I. *see* **Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

Peternell, Thomas On the rigidity problem for the complex projective space. **89f:32036**

Pressley, A. N. *see* **Guest, M. A., 89i:58016**

Sakane, Yusuke Compact Einstein manifolds—positive Ricci curvature in the Kähler-Einstein case. (Japanese) **89m:53079**

Shastri, A. R. *see* **Gurjar, R. V., 89k:14035**

Singh, Ram Narayan On the complex tangent bundle. **89d:53078**

Sokatchev, E. S. *see* **Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Stambolieva, G. Ts. Relations linéaires pour les structures presque complexes. [Linear relations for almost complex structures] **89d:53079**

Szafraniec, Zbigniew On the Euler characteristic of complex algebraic varieties. **89d:14030**

Vaisman, Izu Holomorphic structures and connections on differentiable fibre bundles. **89j:58127**

Wu, Hung Hsi Liouville theorems. **89d:32041**

32C15 Complex spaces

Coen, Salvatore Some properties of the canonical mapping of a complex space into its spectrum. **89c:32023**

Hayes, Sandra The spectrum and its relation to complex analysis. **89m:32020**

Varouchas, J. Kähler spaces and proper open morphisms. **89m:32021**

Items with secondary classifications in 32C15

Kosarew, Siegmund On some new results on the formal principle for embeddings. **89e:32028**

Levi, Roni N. The Riemann-Roch theorem for complex spaces. **89d:32065**

Mihalache, Nicolae The Runge theorem on 1-dimensional Stein spaces. **89k:32032**

Sakane, Yusuke Compact Einstein manifolds—positive Ricci curvature in the Kähler-Einstein case. (Japanese) **89m:53079**

Schuster, H.-W. (*with* Vogt, Axel) Bad extensions of analytic algebra. **89b:32013**

Varouchas, J. Sur l'image d'une variété kählérienne compacte. [On the image of a compact Kählerian manifold] **89d:32064**

Vogt, Axel *see* **Schuster, H.-W., 89b:32013**

32C20 Normal analytic spaces

Huber, Roland Ein semialgebraischer Beweis der topologischen Form des Hauptsatzes von Zariski. (English summary) [A semi-algebraic proof of the topological form of Zariski's main theorem] **89i:32017**

Items with secondary classifications in 32C20

Kashiwara, Masaki A study of variation of mixed Hodge structure. **89i:32050**

32C25 Analytic subsets and submanifolds

Forster, Otto (*with* Ohsawa, Takeo) Complete intersections with growth conditions. **89i:32018**

Forstnerič, Franc Regularity of varieties in strictly pseudoconvex domains. **89d:32021**

Globevnik, Josip Discs in the ball containing given discrete sets. **89i:32019**

Kosarew, Siegmund Ein allgemeines Kriterium für das formale Prinzip. [A general criterion for the formal principle] **89m:32022**

Ohsawa, Takeo *see* **Forster, Otto, 89i:32018**
Tsikh, A. K. Weakly holomorphic functions on complete intersections, their holomorphic continuation. **89b:32018**
Zak, F. L. Theorems on tangents for submanifolds of complex tori. **89f:32017**

Items with secondary classifications in 32C25

Alexander, H. The polynomial hull of a rectifiable curve in $\mathbf{C}^n$. **89m:32030**
Campana, F. Rigidité des fibres des réductions algébriques. [Rigidity of the fibers of algebraic reductions] **89d:32048**
Gauduchon, P. La correspondance de Bryant. (English summary) [The Bryant correspondence] (*see* **89g:58052**)
Grauert, Hans Meromorphe Äquivalenzrelationen: Anwendungen, Beispiele, Ergänzungen. [Meromorphic equivalence relations: applications, examples, complements] **89h:32009**
Huckleberry, A. T. (*with* Oeljeklaus, E.) Complex analysis on solv-manifolds. **89d:32069**
Namba, Makoto ★ Branched coverings and algebraic functions. **89d:14020**
Oeljeklaus, E. *see* **Huckleberry, A. T., 89d:32069**
Szpirglas, Aviva Quelques résultats sur le schéma de Hilbert de $\mathbf{C}^p$ des sous-ensembles analytiques compacts de dimension 0 de $\mathbf{C}^p$. [Some results on the Hilbert scheme of $\mathbf{C}^p$ of the compact analytic subsets of dimension 0 of $\mathbf{C}^p$] **89c:32062**
Weissauer, Rainer Differentialformen zu Untergruppen der Siegelschen Modulgruppe zweiten Grades. [Differential forms attached to subgroups of the Siegel modular group of degree two] **89i:32074**
Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Barlet, D. Fonctions de type trace réelles et formes hermitiennes horizontales. [Real functions of trace type and horizontal Hermitian forms] **89g:32013**
Demailly, Jean-Pierre Nombres de Lelong généralisés, théorèmes d'intégralité et d'analyticité. [Generalized Lelong numbers, integrality and analyticity theorems] **89b:32019**
Ofman, Salomon Injectivité de la transformation obtenue par intégration sur les cycles analytiques. A. Cas d'une variété kählérienne compacte. [Injectivity of the transformation obtained by integration over analytic cycles. A. The case of a compact Kähler manifold] **89h:32021a**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. B. Cas d'une variété algébrique projective privée d'un point. [Injectivity of the transformation obtained by integration over analytic cycles. B. The case of a projective algebraic variety with one point removed] **89h:32021b**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. C. Cas du complémentaire d'une sous-variété. [Injectivity of the transformation obtained by integration over analytic cycles. C. The case of the complement of a submanifold] **89h:32021c**
— Transformée de Radon et intégrale sur les cycles analytiques compacts de certains ouverts de l'espace projectif complexe. [The Radon transform and the integral over compact analytic cycles of certain open subsets of complex projective space] **89h:32022**
— $d'd''$, d''-cohomologies et intégration sur les cycles analytiques. [$d'd''$-cohomology, d''-cohomology and integration over analytic cycles] **89e:32015**
Vaillant, Jean Léon Ramifications d'intégrales holomorphes. (English summary) [Ramifications of holomorphic integrals] **89h:32023**

Items with secondary classifications in 32C30

Abrahamsson, Leif Microlocal Lelong numbers of plurisubharmonic functions. **89g:32025**
Shatalov, V. E. *see* **Sternin, B. Yu., 89m:58198**
Sternin, B. Yu. (*with* Shatalov, V. E.) The Laplace-Radon integral transform and its application to the inhomogeneous Cauchy problem in a complex space. **89m:58198**
Tsikh, A. K. Weakly holomorphic functions on complete intersections, their holomorphic continuation. **89b:32018**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Alyakrinskiĭ, A. A. (*with* Tsikh, A. K.) Cohomology of rational differential forms of degree n in the space $\mathbf{C}^n$. **89d:32022**
Cattani, Eduardo (*with* Kaplan, Aroldo; Schmid, Wilfried) Some remarks on L^2 and intersection cohomologies. **89f:32018**
Kaplan, Aroldo *see* **Cattani, Eduardo; et al., 89f:32018**
MacPherson, R. (*with* Vilonen, K.) Perverse sheaves with singularities along the curve $y^n = x^m$. **89c:32025**
Maisonobe, Philippe Faisceaux pervers dont le support singulier est une courbe plane. [Perverse sheaves whose singular support is a plane curve] **89c:32024**
Putinar, Mihai On analytic modules: softness and quasicoherence. **89a:32009**
Schmid, Wilfried *see* **Cattani, Eduardo; et al., 89f:32018**
Struppa, Daniele (*with* Turrini, Cristina) Sheaf cohomology of the complements of complex submanifolds. (Italian summary) **89k:32019a**
— (*with* Turrini, Cristina) Errata corrige: "Sheaf cohomology of the complements of complex submanifolds". (Italian) **89k:32019b**
Tajima, Shinichi Local cohomology and the absence of Poincaré lemma in tangential Cauchy-Riemann complexes. **89f:32019**
Trapani, Stefano Holomorphically convex compact sets and cohomology. (Italian) **89m:32023**
— Holomorphically convex compact sets and cohomology. **89f:32020**
Tsikh, A. K. *see* **Alyakrinskiĭ, A. A., 89d:32022**
Turrini, Cristina *see* **Struppa, Daniele, 89k:32019a** *and* **89k:32019b**
Verëvkin, A. B. Dimensions of the superspaces $H^p(\mathbf{P}^{n|m}, \Omega^i_{\mathrm{ev}}(j))$. **89i:32020**
Vilonen, K. *see* **MacPherson, R., 89c:32025**

Items with secondary classifications in 32C35

Alessandrini, Lucia (*with* Andreatta, Marco) A resolution of the sheaf of germs of real pluriharmonic functions. **89e:58003**
Andreatta, Marco *see* **Alessandrini, Lucia, 89e:58003**
Batchelor, Marjorie (*with* Bryant, Peter R.) Graded Riemann surfaces. **89b:58022**
Brasselet, J.-P. (*with* Gonzalez-Sprinberg, Gerardo) Espaces de Thom et contre-exemple de J.-L. Verdier et M. Goresky. [Thom spaces and counterexamples of J.-L. Verdier an M. Goresky] **89h:32031**
— (*with* Gonzalez-Sprinberg, Gerardo) Sur l'homologie d'intersection et les classes de Ch des variétés singulières (espaces de Thom, exemples de J.-L. Verdier et M. Goresky). [On the homology of intersection and Chern classes of singular varieties (Thom spaces, examples of J.-L. Verdier and M. Goresky)] **89h:32030**
Bryant, Peter R. *see* **Batchelor, Marjorie, 89b:58022**
Coen, Salvatore Some properties of the canonical mapping of a complex space into its spectrum. **89c:32023**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) Intersection cohomology of q-complete compl spaces. **89d:32027**
— (*with* Kaup, Ludger) Vanishing theorems for the intersection homology of Stein spaces **89c:32030**
Golovin, V. D. Cohomology of computable sheaves. (Russian. English and Georgian summaries) **89k:55008**
Gonzalez-Sprinberg, Gerardo *see* **Brasselet, J.-P., 89h:32030** *and* **89h:32031**
Jannsen, Uwe Deligne homology, Hodge-$\mathscr{D}$-conjecture, and motives. **89h:14016**
Kashiwara, Masaki A study of variation of mixed Hodge structure. **89i:32050**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:32030** *and* **89d:32027**
Leĭtes, D. A. Selected problems of supermanifold theory. **89c:58014**
Levi, Roni N. The Riemann-Roch theorem for complex spaces. **89d:32065**
Ofman, Salomon Injectivité de la transformation obtenue par intégration sur les cycles analytiques. A. Cas d'une variété kählérienne compacte. [Injectivity of the transformati obtained by integration over analytic cycles. A. The case of a compact Kähler manifold] **89h:32021a**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. B. Ca d'une variété algébrique projective privée d'un point. [Injectivity of the transformation obtained by integration over analytic cycles. B. The case of a projective algebraic variet with one point removed] **89h:32021b**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. C. Cas du complémentaire d'une sous-variété. [Injectivity of the transformation obtained by integration over analytic cycles. C. The case of the complement of a submanifold] **89h:32021c**
— Transformée de Radon et intégrale sur les cycles analytiques compacts de certains ouver de l'espace projectif complexe. [The Radon transform and the integral over compact analytic cycles of certain open subsets of complex projective space] **89h:32022**
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— $d'd''$, d''-cohomologies et intégration sur les cycles analytiques. [$d'd''$-cohomology, d''-cohomology and integration over analytic cycles] **89e:32015**
Ohsawa, Takeo Hodge spectral sequence and symmetry on compact Kähler spaces. **89b:32037**
Reiffen, Hans-Jörg The variety of a moduli of foliations on a complex space. **89i:32061**
Rudakov, A. N. Markov numbers and exceptional bundles on $\mathbf{P}^2$. **89f:14012**
Spaltenstein, N. Resolutions of unbounded complexes. **89m:18013**
(Verdier, Jean-Louis) *see* **Brasselet, J.-P., 89h:32030**
Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**
Zucker, Steven M. Degeneration of mixed Hodge structures. **89c:32073**

32C36 Local cohomology of analytic spaces

Items with secondary classifications in 32C36

Ofman, Salomon $d'd''$, d''-cohomologies et intégration sur les cycles analytiques. [$d'd''$-cohomology, d''-cohomology and integration over analytic cycles] **89e:32015**
Tajima, Shinichi Local cohomology and the absence of Poincaré lemma in tangential Cauchy-Riemann complexes. **89f:32019**

32C37 Duality theorems

Ofman, Salomon Residu et dualité. [Residues and duality] **89m:32024**

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Maurin, Krzysztof Duality (polarity) in mathematics, physics and philosophy. **89m:22005**
Trapani, Stefano Holomorphically convex compact sets and cohomology. (Italian) **89m:32023**

32C38 Sheaves of differential operators and their modules [see also 35A27, 58G07]

Borel, Armand (*with* Grivel, Pierre-Paul; Kaup, B.; Haefliger, André; Malgrange, B.; Ehlers, F.) ★ Algebraic D-modules. **89g:32014**
Castro, Francisco Calculs effectifs pour les idéaux d'opérateurs différentiels. [Effective calculations for ideals of differential operators] **89a:32010**
Coutinho, S. C. (*with* Holland, M. P.) Module structure of rings of differential operators. **89i:32021**
Ehlers, F. *see* **Borel, Armand; et al., 89g:32014**
Grivel, Pierre-Paul *see* **Borel, Armand; et al., 89g:32014**
Haefliger, André *see* **Borel, Armand; et al., 89g:32014**
Holland, M. P. *see* **Coutinho, S. C., 89i:32021**
Kaup, B. *see* **Borel, Armand; et al., 89g:32014**
Malgrange, B. *see* **Borel, Armand; et al., 89g:32014**
Sabbah, C. Polynômes de Bernstein-Sato à plusieurs variables. [Multivariable Bernstein-Sato polynomials] **89h:32024**

Wexler-Kreindler, Elena Microlocalisation, platitude et théorie de torsion. [Microlocalization, flatness and torsion theory] **89j:32017**

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— ★ *D*-kagun gaisetsu. II. (Japanese) [An outline of *D*-modules. II] **89k:32021**
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— ★ *D*-kagun gaisetsu. II. (Japanese) [An outline of *D*-modules. II] **89k:32021**

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Adjamagbo, Kossivi Synthèse de la théorie du déterminant sur un anneau finement filtré. [Synthesis of the theory of determinants over finely filtered rings] **89k:16003**
— Sur l'effectivité du lemme du vecteur cyclique. (English summary) [Effectiveness of the cyclic vector lemma] **89i:12006**
Andronikof, E. Sur les filtrations de Cohen-Macaulay des modules microdifférentiels. [On Cohen-Macaulay filtrations of microdifferential modules] **89d:58119**
Beilinson, A. A. On the derived category of perverse sheaves. **89b:14027**
— How to glue perverse sheaves. **89b:14028**
Betina, Kamel Caractérisation des connexions linéaires singulières régulières le long d'un diviseur à croisements normaux dans le cas de plusieurs variables. (English summary) [Characterization of singular linear connections regular along normal crossings in the several variables case] **89g:58190**
Björk, Jan-Erik Filtered Noetherian rings. **89c:16018**
Borho, W. Nilpotent orbits, primitive ideals, and characteristic classes. **89h:22023**
— Nilpotent orbits, primitive ideals, and characteristic classes (a survey). **89d:17012**
Brown, K. A. (*with* Levasseur, T.) Cohomology of induced modules in rings of differential operators. **89e:16004**
Chamarie, M. (*with* Stafford, J. T.) When rings of differential operators are maximal orders. **89d:16007**
Chang, Jen-Tseh Special *K*-types, tempered characters and the Beilinson-Bernstein realization. **89k:22028**
van Doorn, M. G. M. (*with* van den Essen, A. R. P.) $\mathscr{D}_n$-modules with support on a curve. **89f:58125**
van den Essen, A. R. P. Modules with regular singularities over filtered rings and algebraic microlocalization. **89e:58110**
— *see also* **van Doorn, M. G. M., 89f:58125**
Gérard, R. On generalizations of the theorem of Briot-Bouquet. **89j:58120**
Getzler, Ezra Cyclic homology and the Beilinson-Manin-Schechtman central extension. **89h:17014**
Haastert, Burkhard On direct and inverse images of $\mathscr{D}$-modules in prime characteristic. **89j:14011**
Heckman, G. J. (*with* Opdam, E. M.) Root systems and hypergeometric functions. I. **89b:58192a**
— Root systems and hypergeometric functions. II. **89b:58192b**
Iwasaki, Katsunori On the Riemann-Hilbert-Birkhoff problem for ordinary differential equations containing a parameter. **89k:34007**
Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**
Kashiwara, Masaki (*with* Kawai, Takahiro) The Poincaré lemma for variations of polarized Hodge structure. **89g:32035**
Kawai, Takahiro *see* **Kashiwara, Masaki, 89g:32035**
Kersken, M. Ein Regularitätskriterium für analytische Algebren. [A regularity criterion for analytic algebras] **89k:32014**
Laurent, Yves Polygône de Newton et *b*-fonctions pour les modules microdifférentiels. [The Newton polygon and *b*-functions for microdifferential modules] **89k:58282**
Levasseur, T. *see* **Brown, K. A., 89e:16004**
Lichtin, Ben Generalized Dirichlet series and *b*-functions. **89d:32030**
Malliavin-Brameret, Marie-Paule Algèbre homologique et opérateurs différentiels. [Homological algebra and differential operators] **89k:17030**
Narváez Macarro, Luis Cycles évanescents et faisceaux pervers: cas des courbes planes irreductibles. [Vanishing cycles and perverse sheaves: the case of irreducible plane curves] **89k:32022**
Oda, Tadao K. Saito's period map for holomorphic functions with isolated critical points. **89j:32030**
Opdam, E. M. *see* **Heckman, G. J., 89b:58192a**
Sabbah, C. *D*-modules et cycles évanescents (d'après B. Malgrange et M. Kashiwara). [*D*-modules and vanishing cycles (following B. Malgrange and M. Kashiwara)] **89b:32020**
Saito, Morihiko Mixed Hodge modules. **89g:32019**
— On the derived categories of mixed Hodge modules. **89g:32020**
Shimizu, Yuji Mixed Hodge structures on cohomologies with coefficients in a polarized variation of Hodge structure. **89k:14007**
Smith, S. P. Curves, differential operators and finite-dimensional algebras. **89e:14026**
— The simple $\mathscr{D}$-module associated to the intersection homology complex for a class of plane curves. **89d:14031**
— (*with* Stafford, J. T.) Differential operators on an affine curve. **89d:14039**
Stafford, J. T. *see* **Smith, S. P., 89d:14039** *and* **Chamarie, M., 89d:16007**
Tajima, Shinichi A calculus of the tensor product of two holonomic systems with support on nonsingular plane curves. **89j:58122**
Wodzicki, Mariusz Cyclic homology of pseudodifferential operators and noncommutative Euler class. (French summary) **89h:58189**
Zhelobenko, D. P. Transvector algebras in the theory of representations, and dynamic symmetries. (Russian) (*see* **89d:81002**)

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32C40 Singularities

Aleksandrov, A. G. Euler-homogeneous singularities and logarithmic differential forms. **89i:32022**
Aomoto, Kazuhiko Vanishing of certain 1-form attached to a configuration. **89f:32021**
Brenton, Lawrence (*with* Hill, Richard) On the Diophantine equation $1 = \sum 1/n_i + 1/\prod n_i$ and a class of homologically trivial complex surface singularities. **89d:32023**
Broughton, S. A. Milnor numbers and the topology of polynomial hypersurfaces. **89h:32025**
Falk, Michael J. The minimal model of the complement of an arrangement of hyperplanes. **89d:32024**
Gel′fand, I. M. *see* **Varchenko, A. N., 89h:32028**
Hauser, Herwig (*with* Müller, Gerd) Harmonic and dissonant singularities. **89e:32016**
Hill, Richard *see* **Brenton, Lawrence, 89d:32023**
Il′yuta, G. G. On the Coxeter transform of an isolated singularity. (Russian) **89h:32026**
Jambu, Michel Yves Arrangements d'hyperplans. I. Les groupes de réflexions. (English summary) [Arrangements of hyperplanes. I. Reflection groups] **89f:32022**
— Sur l'algèbre d'Orlik-Solomon. (English summary) [On the algebra of Orlik-Solomon] **89f:32023**
— Algèbre d'holonomie de Lie et certaines fibrations topologiques. (English summary) [Holonomy Lie algebra and some topological fibrations] **89j:32018**
Kita, Michitake On the number of parameters of linear differential equations with regular singularities on a compact Riemann surface. **89c:32026**
Kluitmann, Paul ★ Ausgezeichnete Basen erweiterter affiner Wurzelgitter. (German) [Distinguished bases of extended affine root lattices] **89g:32015**
Lê Dũng Tráng (*with* Teissier, Bernard) Limites d'espaces tangents en géométrie analytique. [Limits of tangent spaces in analytic geometry] **89m:32025**
Malikov, Kh. M. Picard-Fuchs equations associated with a critical point of type A_K. (Russian. Tajiki summary) **89c:32027**
Müller, Gerd *see* **Hauser, Herwig, 89e:32016**
Murata, Yoshihiro On fixed and movable singularities of systems of rational differential equations of order *n*. **89i:32023**
Nakamura, Iku On the equations $x^p + y^q + z^r - xyz = 0$. **89g:32016**
Nakamura, Tokushi The topology of the configuration of projective subspaces in a projective space. I. **89d:32025**
Narváez Macarro, Luis Cycles évanescents et faisceaux pervers: cas des courbes planes irreductibles. [Vanishing cycles and perverse sheaves: the case of irreducible plane curves] **89k:32022**
Orlik, Peter (*with* Solomon, Louis) The Hessian map in the invariant theory of reflection groups. **89i:32024**
— (*with* Solomon, Louis) Discriminants in the invariant theory of reflection groups. **89i:32025**
Parusiński, Adam A generalization of the Milnor number. **89k:32023**
Sabbah, C. *D*-modules et cycles évanescents (d'après B. Malgrange et M. Kashiwara). [*D*-modules and vanishing cycles (following B. Malgrange and M. Kashiwara)] **89b:32020**
Saito, Kyoji On the existence of exponents prime to the Coxeter number. **89g:32017**
Saito, Morihiko Exponents and Newton polyhedra of isolated hypersurface singularities. **89h:32027**
Salvetti, Mario Arrangements of lines and monodromy of plane curves. **89m:32026**
Shubladze, M. Sh. On the homotopy type of the complement to the Milnor fiber of an isolated singularity. (Russian. English and Georgian summaries) **89c:32028**
Solomon, Louis *see* **Orlik, Peter, 89i:32024** *and* **89i:32025**
Steenbrink, J. (*with* Zucker, Steven M.) Polar curves, resolution of singularities and the filtered mixed Hodge structure on the vanishing cohomology. **89a:32011**
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Teodosiu, Gabi Some analytic dihedral coverings. **89g:32018**
Varchenko, A. N. Combinatorics and topology of the arrangement of affine hyperplanes in the real space. (Russian) **89c:32029**
— (*with* Gel′fand, I. M.) Heaviside functions of a configuration of hyperplanes. (Russian) **89h:32028**
Watanabe, Kimio On plurigenera of normal isolated singularities. II. **89h:32029**
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Alekseevskaya, T. V. (*with* Gel′fand, I. M.; Zelevinskiĭ, A. V.) Distribution of real hyperplanes and the partition function connected with it. **89m:05014**
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Bakhtin, V. I. The topological normal forms of metamorphoses of caustics of the series D_μ. (Russian) **89j:58009**
(Birman, Joan S.) *see* **Braids, 89f:20003**
Cano, F. Techniques pour la désingularisation des champs de vecteurs. [Techniques for the desingularization of vector fields] **89a:14006**
Cassou-Noguès, Pierrette Étude du comportement du polynôme de Bernstein lors d'une déformation à μ-constant de $X^a + Y^b$ avec $(a,b) = 1$. [Study of the behavior of the Bernstein polynomial under a μ-constant deformation of $X^a + Y^b$, with $(a,b) = 1$] **89k:32042**
Chislenko, Yu. S. Decompositions of simple singularities of real functions. **89m:58023**
Gau, Yih-Nan Embedded topological classification of quasi-ordinary singularities. **89m:14002**
Gel′fand, I. M. (*with* Retakh, V. S.; Serganova, V. V.) Generalized Airey functions, Schubert cells and Jordan groups. **89b:33018**
— *see also* **Alekseevskaya, T. V.; et al., 89m:05014**
Givental′, A. B. Twisted Picard-Lefschetz formulas. **89f:32037**
Grauert, Hans Meromorphe Äquivalenzrelationen: Anwendungen, Beispiele, Ergänzungen. [Meromorphic equivalence relations: applications, examples, complements] **89h:32009**
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Hain, Richard M. The geometry of the mixed Hodge structure on the fundamental group.

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— The de Rham homotopy theory of complex algebraic varieties. II. **89d:14028**
Heckman, G. J. (*with* Opdam, E. M.) Root systems and hypergeometric functions. I. **89b:58192a**
— Root systems and hypergeometric functions. II. **89b:58192b**
Ishii, Tan On propagation of regular singularities for solutions of nonlinear partial differential equations. I. **89j:35011**
Karras, Ulrich Equimultiplicity of deformations of constant Milnor number. **89f:32012**
Kashiwara, Masaki (*with* Kawai, Takahiro) The Poincaré lemma for variations of polarized Hodge structure. **89g:32035**
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Khimshiashvili, G. N. On the connection between the Fredholm index and analytic geometry. (Russian. English and Georgian summaries) **89e:58111**
Kirwan, F. C. (*with* Lee, Ronnie; Weintraub, Steven H.) Quotients of the complex ball by discrete groups. **89j:32034**
Knop, Friedrich Ein neuer Zusammenhang zwischen einfachen Gruppen und einfachen Singularitäten. (English summary) [A new connection between simple groups and simple singularities] **89b:14005**
Kohno, Toshitake Monodromy representations of braid groups and Yang-Baxter equations. (French summary) **89h:17030**
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Lee, Ronnie *see* **Kirwan, F. C.; et al., 89j:32034**
Libgober, A. On π_2 of the complements to hypersurfaces which are generic projections. **89a:14024**
— *see also* **Braids, 89f:20003**
Lichtin, Ben Generalized Dirichlet series and b-functions. **89d:32030**
Lipkovski, Aleksandar Newton polyhedra and irreducibility. **89g:14003**
Lipman, Joseph Topological invariants of quasi-ordinary singularities. **89m:14001**
— *see also* **Gau, Yih-Nan, 89m:14002**
MacPherson, R. (*with* Vilonen, K.) Perverse sheaves with singularities along the curve $y^n = x^m$. **89c:32025**
Maisonobe, Philippe Faisceaux pervers dont le support singulier est une courbe plane. [Perverse sheaves whose singular support is a plane curve] **89c:32024**
(Montaldi, J.) *see* **Arnol′d, V. I.; et al., 89g:58024**
Mostow, G. D. (*with* Yau, Stephen S.-T.) Some surfaces covered by the ball and a problem in finite groups. **89d:32062**
Muro, Masakazu Singular invariant tempered distributions on regular prehomogeneous vector spaces. **89d:22010**
Nakayama, Noboru The singularity of the canonical model of compact Kähler manifolds. **89g:32045**
Némethi, András Lefschetz theory for complex affine varieties. **89k:14031**
Oda, Tadao K. Saito's period map for holomorphic functions with isolated critical points. **89j:32030**
Oka, Mutsuo^{1} On the stratification of good hypersurfaces. **89k:32025**
Opdam, E. M. *see* **Heckman, G. J., 89b:58192a**
Petrie, Ted (*with* Randall, John D.) A topological view of algebraic actions on complex affine space. **89i:14041**
Petrov, G. S. The Chebyshev property of elliptic integrals. **89i:33002**
Plá, Héctor Approximation of solutions of a differential system on algebraic curves. (Spanish. English summary) **89k:14074a**
— Erratum: "Approximation of solutions of a differential system on algebraic curves". **89k:14074b**
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Ruiz, Jesús M. Basic properties of real analytic and semianalytic germs. **89h:32016**
Sabbah, C. Polynômes de Bernstein-Sato à plusieurs variables. [Multivariable Bernstein-Sato polynomials] **89h:32024**
Sasai, Takao Geometry of analytic space curves with singularities and regular singularities of differential equations. **89m:58009**
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Tsuji, Hajime Complete negatively pinched Kähler surfaces of finite volume. **89k:53062**
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Wall, C. T. C. Functions on quotient singularities. **89c:32021**
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Yokura, Shoji Algebraic cycles and intersection homology. **89h:14007**
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  Artin's Braid Group ★ Braids. **89f:20003**
Contemporary Mathematics ★ Braids. **89f:20003**
Problems concerning stratified spaces and analytic varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**
Santa Cruz, CA ★ Braids. **89f:20003**
Symposium:
  Problems Concerning Stratified Spaces and Analytic Varieties ★ Problems concerning stratified spaces and analytic varieties. **89b:32001**

32C42 Stratified sets, etc. [see also 32Bxx]

Brasselet, J.-P. (*with* Gonzalez-Sprinberg, Gerardo) Espaces de Thom et contre-exemples de J.-L. Verdier et M. Goresky. [Thom spaces and counterexamples of J.-L. Verdier and M. Goresky] **89h:32031**
— (*with* Gonzalez-Sprinberg, Gerardo) Sur l'homologie d'intersection et les classes de Ch des variétés singulières (espaces de Thom, exemples de J.-L. Verdier et M. Goresky). [On the homology of intersection and Chern classes of singular varieties (Thom spaces, examples of J.-L. Verdier and M. Goresky)] **89h:32030**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) Intersection cohomology of q-complete compl spaces. **89d:32027**
— (*with* Kaup, Ludger) Vanishing theorems for the intersection homology of Stein spaces. **89c:32030**
— (*with* Kaup, Ludger) Theorems of Lefschetz type in intersection homology. I. The hyperplane section theorem. **89k:32024**
Gonzalez-Sprinberg, Gerardo *see* **Brasselet, J.-P., 89h:32030** *and* **89h:32031**
Hajto, Zbigniew Whitney (b)-regularity for analytically constructible sets. **89f:32024**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:32030; 89d:32027** *and* **89k:32024**
Mirollo, R. E. (*with* Vilonen, K.) Bernstein-Gel′fand-Gel′fand reciprocity on perverse sheaves. **89e:32017**
Oka, Mutsuo^{1} On the stratification of good hypersurfaces. **89k:32025**
Saito, Morihiko Mixed Hodge modules. **89g:32019**
— On the derived categories of mixed Hodge modules. **89g:32020**
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Alekseevskaya, T. V. (*with* Gel′fand, I. M.; Zelevinskiĭ, A. V.) Distribution of real hyperplanes and the partition function connected with it. **89m:05014**
Denkowska, Zofia (*with* Wachta, Krystyna) Une construction de la stratification sous-analytique avec la condition (w). (English and Russian summaries) [A construction of a subanalytic stratification under the condition (w)] **89m:32013**
— Stratifications sous-analytiques. [Subanalytic stratifications] **89m:32014**
Fernandez, Fernando (*with* Recio Muñiz, Tomás J.; Ruiz, Jesús M.) Generalized Thom's lemma in semianalytic geometry. (Russian summary) **89b:32015**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) On the hard Lefschetz theorem in intersection homology for complex varieties with isolated singularities. **89c:14026**
Gel′fand, I. M. (*with* Graev, M. I.) General hypergeometric functions on the Grassmanni $G_{3,6}$. (Russian) **89c:32083**
— (*with* Graev, M. I.) Strata in $G_{3,6}$ and the hypergeometric functions connected with ther (Russian) **89c:32084**
— (*with* Serganova, V. V.) Combinatorial geometries and the strata of a torus on homogeneous compact manifolds. (Russian) **89g:32049**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Equations of hypergeometric type and Newton polyhedra. **89j:22015**
— *see also* **Alekseevskaya, T. V.; et al., 89m:05014**
Graev, M. I. *see* **Gel′fand, I. M., 89c:32083** *and* **89c:32084**
Henry, Jean-Pierre Georges (*with* Merle, M.) Conditions de régularité et éclatements. (English summary) [Regularity conditions and blowings up] **89d:32015**
Kapranov, M. M. *see* **Gel′fand, I. M.; et al., 89j:22015**
Karras, Ulrich Equimultiplicity of deformations of constant Milnor number. **89f:32012**
Kashiwara, Masaki A study of variation of mixed Hodge structure. **89i:32050**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:14026**
Kuo, Tzee Char (*with* Trotman, David) On (w) and (t^s)-regular stratifications. **89h:58014**
Kurdyka, Krzysztof Points réguliers d'un sous-analytique. (English summary) [Regular points of a subanalytic set] **89g:32010**
— (*with* Raby, Gilles) Densité et cône tangent à un sous-analytique. (English summary) [Density and tangent cone of a subanalytic set] **89j:32010**
Kuwata, Masato Intersection homology of weighted projective spaces and pseudo-lens spaces. **89k:57042**
Lê Dũng Tráng (*with* Teissier, Bernard) Limites d'espaces tangents en géométrie analytique. [Limits of tangent spaces in analytic geometry] **89m:32025**
Łojasiewicz, Stanisław (*with* Stasica, Jacek; Wachta, Krystyna) Stratifications sous-analytiques. Condition de Verdier. (English and Russian summaries) [Subanalytic stratifications. Verdier's condition] **89g:32011**
Matsumoto, Keiji (*with* Sasaki, Takeshi; Yoshida, Masaaki) The period map of a 4-parameter family of $K3$ surfaces and the Aomoto-Gel′fand hypergeometric function of type $(3,6)$. **89m:32041**
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Raby, Gilles *see* **Kurdyka, Krzysztof, 89j:32010**
Recio Muñiz, Tomás J. *see* **Fernandez, Fernando; et al., 89b:32015**
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Shustin, E. I. Versal deformations in a space of plane curves of fixed degree. (Russian) **89a:14034**
Springer, T. A. Perverse sheaves and representation theory. **89g:20073**
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Tanisaki, Toshiyuki Hodge modules, equivariant K-theory and Hecke algebras. **89c:20070**
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32C45 Modifications, resolution of singularities [see also 14E15]

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Gonzalez-Sprinberg, Gerardo Désingularisation des surfaces par des modifications de Nash normalisées. [Desingularization of surfaces by normalized Nash modifications] **89a:14015**

Hashimoto, Naoki Deformations of some algebraic surfaces with $q=0$ and $p_g=1$. **89f:14035**

Ishii, Shihoko Isolated Q-Gorenstein singularities of dimension three. **89d:32016**

Karras, Ulrich Equimultiplicity of deformations of constant Milnor number. **89f:32012**

Orbanz, U. On equimultiplicity of the normal cone. **89a:14008**

Parusiński, Adam A generalization of the Milnor number. **89k:32023**

Yoshinaga, Etsuo The modified analytic trivialization of real analytic families via blowing-ups. **89d:32047**

32Dxx Analytic continuation

32D05 Domains of holomorphy

Agranovskiĭ, M. L. (*with* Semenov, A. M.) Holomorphy on a unitary-invariant family of curves in $\mathbf{C}^n$. **89f:32025**

Nishihara, Masaru On a pseudoconvex domain spread over a complex projective space induced from a complex Banach space with a Schauder basis. **89a:32012**

Semenov, A. M. *see* **Agranovskiĭ, M. L., 89f:32025**

Taniguchi, Setsuo Kähler diffusion processes associated with the Bergman metric and domains of holomorphy. **89j:32019**

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Mok, Ngaiming Complete Kähler-Einstein metrics on bounded domains locally of finite volume at some boundary points. **89m:32029**

Nôno, Kiyoharu Characterization of existence regions of primitives of hyperholomorphic functions. **89d:30053**

Schiltz, Dominique Un procédé de localisation de la formule de Cauchy-Fantappiè. (English summary) [A method for the localisation of the Cauchy-Fantappiè formula] **89c:32005**

— Décomposition de la solution d'un problème de Cauchy homogène près de la frontière d'un domaine d'holomorphie des données de Cauchy. (English summary) [Decomposition of the solution of a homogeneous Cauchy problem near the boundary of a domain of holomorphy for the Cauchy data] **89h:35010**

32D10 Envelopes of holomorphy

Alexander, H. (*with* Wermer, J.) Envelopes of holomorphy and polynomial hulls. **89i:32026**

Bedford, Eric Locally determined envelopes of holomorphy in $\mathbf{C}^2$. **89g:32021**

Casadio Tarabusi, Enrico (*with* Trapani, Stefano) Envelopes of holomorphy. (Italian) **89i:32027**

Cœuré, Gérard (*with* Loeb, Jean-Jacques) Le théorème des tubes de Bochner pour les groupes de Lie. [Bochner's tube theorem for Lie groups] **89e:32018**

Loeb, Jean-Jacques *see* **Cœuré, Gérard, 89e:32018**

Trapani, Stefano Complex retractions and envelopes of holomorphy. **89k:32026**

— *see also* **Casadio Tarabusi, Enrico, 89i:32027**

Wermer, J. *see* **Alexander, H., 89i:32026**

Items with secondary classifications in 32D10

Jõricke, B. Removable singularities of CR-functions. **89j:32021**

32D15 Continuation of analytic objects

Adachi, Kenzō H^p estimates for extensions of holomorphic functions on convex domains. **89a:32013**

— Extension of holomorphic functions from subvarieties to convex domains. **89k:32027**

Bell, Steven R. Local regularity of CR homeomorphisms. **89f:32026**

— (*with* Catlin, David W.) Regularity of CR mappings. **89i:32028**

Ben Yattou, M. L. Meromorphic extension of functions with a harmonic growth condition. **89d:32028**

Boggess, A. The holomorphic extension of CR functions near a point of higher type. **89i:32029**

Catlin, David W. *see* **Bell, Steven R., 89i:32028**

Chirka, E. M. *see* **Sadullaev, A., 89a:32014**

Downarowicz, Malgorzata On series of homogeneous polynomials noncontinuable beyond their domain of convergence. **89k:32028**

Fornæss, John Erik (*with* Sibony, Nessim) Plurisubharmonic functions on ring domains. **89d:32029**

Jarnicki, M. A method of holomorphic retractions and pseudoinverse matrices in the theory of continuation of δ-tempered functions. **89g:32022**

Korobeĭnik, Yu. F. A problem of analytic continuation in $\mathbf{C}^p$. **89k:32029**

Laurent-Thiébaut, Christine Sur l'extension des fonctions CR dans une variété de Stein. (English summary) [Extension of CR functions in a Stein manifold] **89j:32020**

Lichtin, Ben Generalized Dirichlet series and b-functions. **89d:32030**

Maciejkowska, A. On some mappings obtained by a holomorphic continuation from $\mathbf{R}^{2n}$ into $\mathbf{C}^{2n}$. (Russian and Polish summaries) **89e:32019**

Ohsawa, Takeo On the extension of L^2 holomorphic functions. II. **89d:32031**

Sadullaev, A. (*with* Chirka, E. M.) On the continuation of functions with polar singularities. **89a:32014**

Sibony, Nessim *see* **Fornæss, John Erik, 89d:32029**

Sirik, V. I. Asymptotic monogeneity of continuous mappings. (Russian) **89k:32030**

Stensønes. Berit Extendability of holomorphic functions. **89d:32032**

Tuĭchiev, T. T. Analytic continuation of functions with finite singularities in a given direction. (Russian) **89d:32033**

Tumanov, A. E. Extension of CR-functions into a wedge from a manifold of finite type. **89m:32027**

Items with secondary classifications in 32D15

Agranovskiĭ, M. L. (*with* Semenov, A. M.) Holomorphy on a unitary-invariant family of curves in $\mathbf{C}^n$. **89f:32025**

Bell, Steven R. Weakly pseudoconvex domains with noncompact automorphism groups. **89h:32052**

Chang, Ch'ing Hui (*with* Hu, Mên Cháng; Li, Hsüan Pei) Extremal analytic discs with prescribed boundary data. **89f:32043**

Chirka, E. M. *see* **Pinchuk, S. I., 89d:32014**

Diederich, K. (*with* Fornæss, John Erik) Applications holomorphes propres entre domaines à bord analytique réel. (English summary) [Proper holomorphic mappings between real-analytic domains] **89i:32052**

Fornæss, John Erik *see* **Diederich, K., 89i:32052**

Forstnerič, Franc Extending proper holomorphic mappings of positive codimension. **89j:32033**

Hu, Mên Cháng *see* **Chang, Ch'ing Hui; et al., 89f:32043**

Khasanov, S. V. Correspondence of boundaries under biholomorphic mappings in $\mathbf{C}^n$. **89m:32046**

Li, Hsüan Pei *see* **Chang, Ch'ing Hui; et al., 89f:32043**

Liess, Otto The edge-of-the-wedge theorem for systems of constant coefficient partial differential operators. I, II. **89i:35033**

Olafsson, G. Fourier and Poisson transformation associated to a semisimple symmetric space. **89d:43011**

Pinchuk, S. I. (*with* Chirka, E. M.) On the symmetry principle for analytic sets. **89d:32014**

Semenov, A. M. *see* **Agranovskiĭ, M. L., 89f:32025**

Zhang, Jin Hao On extension of an analytic subvariety in a strongly pseudoconvex domain. (Chinese. English summary) **89f:32028**

32D20 Removable singularities

Aoki, Takashi (*with* Tajima, Shinichi) On a generalization of Bochner's tube theorem for generic CR-submanifolds. **89d:32034**

Bratti, Giuliano On a theorem of Hartogs. (Italian) **89i:32030**

Jõricke, B. Removable singularities of CR-functions. **89j:32021**

Kytmanov, A. M. Elimination of singularities of CR-functions. (Russian) **89c:32031**

— On removable singularities of integrable CR-functions. (Russian) **89i:32031**

Riihentaus, Juhani Removable singularities in the Nevanlinna class and in the Hardy classes. **89c:32032**

Rosay, Jean-Pierre (*with* Stout, Edgar Lee) Radó's theorem for CR-functions. **89m:32028**

Stout, Edgar Lee *see* **Rosay, Jean-Pierre, 89m:32028**

Suzuki, Masakazu Comportement des applications holomorphes autour d'un ensemble polaire. II. (English summary) [Behavior of holomorphic mappings around a polar set. II] **89f:32027**

Tajima, Shinichi *see* **Aoki, Takashi, 89d:32034**

Tuĭchiev, T. T. Continuation of functions along a fixed path. **89h:32032**

Zhang, Jin Hao On extension of an analytic subvariety in a strongly pseudoconvex domain. (Chinese. English summary) **89f:32028**

Items with secondary classifications in 32D20

Fornæss, John Erik (*with* Sibony, Nessim) Plurisubharmonic functions on ring domains. **89d:32029**

Huber, Roland Ein semialgebraischer Beweis der topologischen Form des Hauptsatzes von Zariski. (English summary) [A semi-algebraic proof of the topological form of Zariski's main theorem] **89i:32017**

Sibony, Nessim *see* **Fornæss, John Erik, 89d:32029**

32D99 None of the above, but in this section

Globevnik, Josip Boundary interpolation and proper holomorphic maps from the disc to the ball. **89i:32032**

Simeonov, R. On the theorem of Ruffini-Abel. **89f:32029**

Items with secondary classifications in 32D99

Coupet, Bernard Construction de disques analytiques et applications. (English summary) [Construction of analytic discs and applications] **89a:32033**

Uzakov, M. M. Stability in multidimensional problems of analytic continuation. (Russian) **89g:41003**

32Exx Holomorphic convexity

32E10 Stein spaces, Stein manifolds

Demailly, Jean-Pierre (*with* Laurent-Thiébaut, Christine) Formules intégrales pour les formes différentielles de type (p,q) dans les variétés de Stein. (English summary) [Integral formulas for differential forms of type (p,q) in Stein manifolds] **89g:32023**

Isaev, A. V. (*with* Mishchenko, M. A.) Affine classification of tubular quadrics having one minus in the Levi form. (Russian) **89j:32022**

Laurent-Thiébaut, Christine *see* **Demailly, Jean-Pierre, 89g:32023**

Liu, Qing Un contre-exemple au "critère cohomologique d'affinoïdicité". (English summary) [A counterexample to the "cohomological criterion of affinoidicity"] **89k:32031**

Mishchenko, M. A. *see* **Isaev, A. V., 89j:32022**

Mok, Ngaiming Complete Kähler-Einstein metrics on bounded domains locally of finite volume at some boundary points. **89m:32029**

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Globevnik, Josip Homogeneous polynomials on the ball of $\mathbf{C}^2$. **89e:32037**

Heinzner, Peter Linear äquivariante Einbettungen Steinscher Räume. [Linearly equivariant imbeddings of Stein spaces] **89k:32061**

Jaramillo, J. A. Bounded real-analytic submanifolds of Banach spaces. **89m:58016**

Levenberg, N. On an example of Wermer. **89i:32033**

Neeman, Amnon Steins, affines and Hilbert's fourteenth problem. **89d:14001**

Trapani, Stefano Holomorphically convex compact sets and cohomology. **89f:32020**

Uda, Toshio Some properties of Stein spaces. **89c:32037**

32E15 Runge pairs

Bratti, Giuliano Classification of the Hartogs domains A in $\mathbf{C}^2$ that satisfy the equation $H^2(A, \mathbf{C}) = 0$. (Italian. English summary) **89h:32033**
Mihalache, Nicolae The Runge theorem on 1-dimensional Stein spaces. **89k:32032**
Stensønes, Berit Runge approximation. **89f:32030**

Items with secondary classifications in 32E15

Trapani, Stefano Complex retractions and envelopes of holomorphy. **89k:32026**
Uda, Toshio Some properties of Stein spaces. **89c:32037**

32E20 Polynomial convexity

Alexander, H. Polynomial hulls and linear measure. **89b:32021**
— The polynomial hull of a rectifiable curve in $\mathbf{C}^n$. **89m:32030**
Duval, Julien Un exemple de disque polynômialement convexe. [An example of a polynomially convex disk] **89j:32023**
Korevaar, J. Some $\mathbf{C}^N$ capacities and applications. **89d:32035**
Levenberg, N. On an example of Wermer. **89i:32033**
Rosay, Jean-Pierre The polynomial hull of nonconnected tube domains, and an example of E. Kallin. **89i:32034**
Weinstock, Barnet M. On the polynomial convexity of the union of two maximal totally real subspaces of $\mathbf{C}^n$. **89i:32035**
Wermer, J. Balayage and polynomial hulls. **89d:32036**

Items with secondary classifications in 32E20

Alexander, H. (*with* Wermer, J.) Envelopes of holomorphy and polynomial hulls. **89i:32026**
Forstnerič, Franc Regularity of varieties in strictly pseudoconvex domains. **89d:32021**
Sergeev, A. G. On the behavior of the solutions of the $\bar{\partial}$-equation on the boundary of the future tube. **89f:32010**
Wermer, J. *see* **Alexander, H., 89i:32026**

32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Hickel, Michel Sur un problème de division dans l'algèbre $A^\infty(\Omega)$ d'un ouvert faiblement pseudo-convexe de $\mathbf{C}^2$. [On a division problem in the algebra $A^\infty(\Omega)$ of a weakly pseudoconvex open set in $\mathbf{C}^2$] **89d:32037**
Kaneko, Hiroshi[2] (*with* Taniguchi, Setsuo) A stochastic approach to the Šilov boundary. **89a:32015**
Taniguchi, Setsuo *see* **Kaneko, Hiroshi**[2]**, 89a:32015**

Items with secondary classifications in 32E25

Bierstone, Edward (*with* Milman, Pierre D.) Ideals of holomorphic functions with C^∞ boundary values on a pseudoconvex domain. **89c:32042**
Bjon, Sten (*with* Lindström, Mikael) Algebras of holomorphic functions. **89h:46071**
Braun, Rüdiger W. Linear topological structure of closed ideals in certain F-algebras. **89d:46027**
— Linear topological structure of closed ideals in weighted algebras of entire functions. **89i:46060**
Curto, Raul E. (*with* Muhly, Paul S.; Nakazi, Takahiko; Yamamoto, Takanori) On superalgebras of the polydisc algebra. **89g:46089**
Deheri, G. M. *see* **Kamthan, P. K., 89j:46024**
Dupain, Y. Fonctions intérieures dans la boule unité de $\mathbf{C}^n$ dont les fonctions traces sont aussi intérieures. [Inner functions in the unit ball of $\mathbf{C}^n$ whose trace functions are also inner] **89e:32013**
Gentili, Graziano (*with* Struppa, Daniele) Corona problems in spaces of entire functions with growth conditions. **89c:32007**
Iordan, Andrei Pseudoconvex domains with peak functions at each point of the boundary. **89c:32045**
Jarnicki, M. A method of holomorphic retractions and pseudoinverse matrices in the theory of continuation of δ-tempered functions. **89g:32022**
Kamthan, P. K. (*with* Deheri, G. M.) Addendum: "Extended classes of analytic functions of several variables" [Libertas Math. **4** (1984), 21–59; MR 86m:46025]. **89j:46024**
Kyriazis, Athanasios Tensor products of function algebras. **89h:46100**
Lindström, Mikael *see* **Bjon, Sten, 89h:46071**
Milman, Pierre D. *see* **Bierstone, Edward, 89c:32042**
Morzhakov, V. V. On the epimorphy of the convolution operator in convex domains in $\mathbf{C}^l$. **89b:32007**
Muhly, Paul S. *see* **Curto, Raul E.; et al., 89g:46089**
Nakazi, Takahiko *see* **Curto, Raul E.; et al., 89g:46089**
Struppa, Daniele *see* **Gentili, Graziano, 89c:32007**
Tonev, T. V. An infinite-dimensional generalization of the Shilov boundary and infinite-dimensional analytic structures in the spectrum of a uniform algebra. **89i:46061**
— New relations between Sibony-Basener boundaries. **89i:46062**
Wermer, J. Balayage and polynomial hulls. **89d:32036**
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Function Algebras and Related Topics ★ Kansukan ni kanren shita sho mondai. II. (Japanese) [Function algebras and related topics. II] **89i:32001**

32E27 Krasner-Tate algebras, etc. (algebras of holomorphic functions over non-Archimedean fields)

Escassut, Alain Fonctions analytiques et produits croulants. [Analytic functions and collapsing products] **89d:32038**
— Lubin-Hensel factorization for Laurent series. **89d:32039**

Items with secondary classifications in 32E27

Liu, Qing Un contre-exemple au "critère cohomologique d'affinoïdicité". (English summary) [A counterexample to the "cohomological criterion of affinoidicity"] **89k:32031**

32E30 Holomorphic and polynomial approximation

Aïzenberg, L. A. Extrapolation of functions that are holomorphic in a product of half-planes or strips. Analytic continuation of the spectrum. **89k:32033**
Bruna, Joaquim (*with* Burgués i Badia, Josep Ma.) Holomorphic approximation and estimates for the $\bar{\partial}$-equation on strictly pseudoconvex nonsmooth domains. **89g:32024**
Burgués i Badia, Josep Ma. *see* **Bruna, Joaquim, 89g:32024**
Korevaar, J. Polynomial approximation numbers, capacities and extended Green functions for $\mathbf{C}$ and $\mathbf{C}^N$. **89b:32022**
Watari, Satoru Construction of polynomials on a number of pseudoconvex domains. **89e:32020**

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Coupet, Bernard Régularité de fonctions holomorphes sur des wedges. [Regularity of holomorphic functions on wedges] **89m:32011**
Lieb, Ingo (*with* Range, R. Michael) The kernel of the $\bar{\partial}$-Neumann operator on strictly pseudoconvex domains. **89d:32044**
Ligocka, Ewa On duality and interpolation for spaces of polyharmonic functions. **89f:46054c**
Lourenço, Mary Lilian Riemann domains over (DFC)-spaces. **89g:46083**
Manzhikova, N. S. The Weil integral representation and Jacobi bases in $\mathbf{C}^n$. (Russian) **89h:32008**
Range, R. Michael *see* **Lieb, Ingo, 89d:32044**
Saitoh, Saburou Applications of the general theory of reproducing kernels. **89c:46040**
Shaimkulov, B. A. Reconstruction of holomorphic functions from values on certain sets of uniqueness. (Russian) **89m:32003**
Shirokov, N. A. On the uniform closure of polynomials in strictly pseudoconvex domains. (Russian. Armenian summary) **89k:32036**
Słodkowski, Zbigniew Complex interpolation of normed and quasinormed spaces in several dimensions. I. **89j:32024**
Stensønes, Berit Runge approximation. **89f:32030**
Thomas, Pascal J. Tents and interpolating sequences in the unit ball. **89c:32016**

32E35 Global boundary behavior of holomorphic functions

Globevnik, Josip (*with* Stout, Edgar Lee) Boundary regularity for holomorphic maps from the disc to the ball. **89c:32033**
Stout, Edgar Lee *see* **Globevnik, Josip, 89c:32033**

Items with secondary classifications in 32E35

Abate, Marco Orbit structure of noncompact Hermitian symmetric spaces. (Italian summary) **89i:32069**
Amar, Éric Estimations, par noyaux, des solutions de l'équation $\bar{\partial}u = f$. (English summary) [Estimates using kernels of the solutions of the equation $\bar{\partial}u = f$] **89c:32009**
Chollet, Anne-Marie Propriétés de recouvrement des sous-ensembles de la frontière d'un domaine strictement pseudo-convexe. [Covering properties of subsets of the boundary of a strictly pseudoconvex domain] **89h:32013**
Cima, Joseph A. (*with* Suffridge, Ted) Proper mappings between balls in $\mathbf{C}^n$. **89h:32051**
Lempert, László Complex geometry in convex domains. **89f:32045**
Mok, Ngaiming Complete Kähler-Einstein metrics on bounded domains locally of finite volume at some boundary points. **89m:32029**
Suffridge, Ted *see* **Cima, Joseph A., 89h:32051**

32E99 None of the above, but in this section

Zelinskiĭ, Yu. B. On linearly convex domains with smooth boundaries. **89e:32021**

Items with secondary classifications in 32E99

Boggess, A. The holomorphic extension of CR functions near a point of higher type. **89i:32029**
Rudol, K. The spectrum of orthogonal sums of subnormal pairs. **89d:47039**

32Fxx Geometric convexity

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

Abrahamsson, Leif Microlocal Lelong numbers of plurisubharmonic functions. **89g:32025**
Bedford, Eric (*with* Taylor, B. Alan) Smooth plurisubharmonic functions without subextension. **89k:32034**
Cegrell, Urban Plurisubharmonic functions outside compact sets. **89d:32040**
Kaneko, Hiroshi[2] A stochastic resolution of a complex Monge-Ampère equation on a negatively curved Kähler manifold. **89c:32034**
Khusanov, Z. Kh. Maximal q-subharmonic functions. (Russian) **89f:32031**
Nadbitova, N. S. Maximal plurisubharmonic Green functions for a compact set in $\mathbf{C}^n$ and their application to continuable bases. (Russian) **89h:32034**
Patrizio, Giorgio Boundary value problems for the homogeneous complex Monge-Ampère equation. **89k:32035**
Shchekhorskiĭ, A. I. On a local theorem in $\mathbf{C}^n$. (Russian) **89c:32035**
Słodkowski, Zbigniew Pseudoconvex classes of functions. I. Pseudoconcave and pseudoconvex sets. **89m:32031**

— Complex interpolation of normed and quasinormed spaces in several dimensions. I. **89j:32024**

— Pseudoconvex classes of functions. III. Characterization of dual pseudoconvex classes on complex homogeneous spaces. **89m:32032**

Taylor, B. Alan *see* **Bedford, Eric, 89k:32034**

Thorbiörnson, Johan A counterexample to the strong subadditivity of extremal plurisubharmonic functions. **89c:32036**

Uda, Toshio Some properties of Stein spaces. **89c:32037**

Wu, Hung Hsi Liouville theorems. **89d:32041**

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Berteloot, François (*with* Oeljeklaus, K.) Invariant plurisubharmonic functions and hypersurfaces on semisimple complex Lie groups. **89i:32065**

Braun, Rüdiger W. Linear topological structure of closed ideals in weighted algebras of entire functions. **89i:46060**

Cegrell, Urban Subharmonic functions and minimal surfaces. **89a:31002**

— ★ Capacities in complex analysis. **89m:32001**

Fornæss, John Erik (*with* Sibony, Nessim) Plurisubharmonic functions on ring domains. **89d:32029**

Fukushima, Masatoshi On holomorphic diffusions and plurisubharmonic functions. **89g:60237**

Klimek, Maciej Infinitesimal pseudometrics and the Schwarz lemma. **89k:32050**

Kolaski, Clinton J. Surjective isometries of weighted Bergman spaces. **89m:46042**

Lelong, Pierre Notions capacitaires et fonctions de Green pluricomplexes dans les espaces de Banach. (English summary) [Notions of capacity and pluricomplex Green functions in Banach spaces] **89g:46082**

Matsugu, Yasuo Strong limits of M-subharmonic functions. **89g:31012**

Oeljeklaus, K. *see* **Berteloot, François, 89i:32065**

Patrizio, Giorgio Disques extrémaux de Kobayashi et équation de Monge-Ampère complexe. (English summary) [Extremal disks of Kobayashi and the complex Monge-Ampère equation] **89b:32033**

Pawłucki, Wiesław (*with* Pleśniak, Wiesław) Extension of C^∞ functions from sets with polynomial cusps. **89b:58026**

Pleśniak, Wiesław *see* **Pawłucki, Wiesław, 89b:58026**

Sibony, Nessim *see* **Fornæss, John Erik, 89d:32029**

Tamrazov, P. M. Almost subharmonic functions, their analogues in complex spaces and the removal of singularities. (Russian) **89f:31007**

Tuĭchiev, T. T. Continuation of functions along a fixed path. **89h:32032**

Varouchas, J. Kähler spaces and proper open morphisms. **89m:32021**

Vasin, A. V. Isometries between L^p-spaces of pluriharmonic and polyanalytic functions. (Russian) **89k:46037**

32F10 q-convexity, q-concavity

Abe, Yukitaka (H,C)-groups with positive line bundles. **89a:32016**

Ancona, Vincenzo Quelques propriétés des espaces 1-convexes. [Some properties of 1-convex spaces] **89c:32038**

— Embedding of a 1-convex space in an algebraic 1-convex space. (Italian. English summary) **89c:32039**

Fichera, Gaetano Unification of global and local existence theorems for holomorphic functions of several complex variables. (Italian summary) **89c:32040**

Ohsawa, Takeo (*with* Takegoshi, Kenshô) Hodge spectral sequence on pseudoconvex domains. **89d:32042**

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Items with secondary classifications in 32F10

Berndtsson, Bo Integral formulas on projective space and the Radon transform of Gindikin-Henkin-Polyakov. **89f:32006**

Colţoiu, Mihnea A remark on a theorem of Vo Van Tan. **89e:32026**

Fieseler, Karl-Heinz (*with* Kaup, Ludger) Intersection cohomology of q-complete complex spaces. **89d:32027**

— (*with* Kaup, Ludger) Vanishing theorems for the intersection homology of Stein spaces. **89c:32030**

Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:32030** *and* **89d:32027**

Kosarew, Siegmund Modulräume holomorpher Abbildungen auf konkaven komplexen Räumen. [Moduli spaces of holomorphic mappings onto concave complex spaces] **89c:32063**

Marden, A. Geometric complex coordinates for Teichmüller space. (*see* **89m:81001**)

Ofman, Salomon $d'd''$, d''-cohomologies et intégration sur les cycles analytiques. [$d'd''$-cohomology, d''-cohomology and integration over analytic cycles] **89e:32015**

Słodkowski, Zbigniew Pseudoconvex classes of functions. I. Pseudoconcave and pseudoconvex sets. **89m:32031**

32F15 Pseudoconvex domains

Adachi, Kenzō Continuation of bounded holomorphic functions from certain subvarieties to weakly pseudoconvex domains. **89a:32017**

Amar, Éric Geometric regularity versus functional regularity. **89c:32041**

Bierstone, Edward (*with* Milman, Pierre D.) Ideals of holomorphic functions with C^∞ boundary values on a pseudoconvex domain. **89c:32042**

Chaumat, Jacques (*with* Chollet, Anne-Marie) Noyaux pour résoudre l'équation $\overline{\partial}u=v$ dans des classes indéfiniment différentiables. (English summary) [Kernels to solve the equation $\overline{\partial}u=v$ in infinitely differentiable classes] **89i:32036**

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Faran, James J., V The nonimbeddability of real hypersurfaces in spheres. **89i:32037**

Gong, Sheng On Reinhardt domains. I. (Chinese) **89c:32043**

Graham, Carl Higher asymptotics of the complex Monge-Ampère equation. **89e:32022**

Greene, Robert E. (*with* Krantz, Steven G.) Characterizations of certain weakly pseudoconvex domains with noncompact automorphism groups. **89c:32044**

Iordan, Andrei Pseudoconvex domains with peak functions at each point of the boundary. **89c:32045**

Kodama, Akio Characterizations of certain weakly pseudoconvex domains $E(k,\alpha)$ in $\mathbf{C}^n$. **89i:32038**

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Lawson, H. Blaine, Jr. (*with* Yau, Stephen S.-T.) Holomorphic symmetries. **89c:32046**

Leung, Kam Wing (*with* Patrizio, Giorgio; Wong, Pit-Mann) Isometries of intrinsic metrics on strictly convex domains. **89c:32047**

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Patrizio, Giorgio *see* **Leung, Kam Wing; et al., 89c:32047**

Sakai, Akira A characterization of weak pseudoconvexity. **89e:32023**

Sergeev, A. G. The future tube as one of the basic examples of pseudoconvex domains. **89c:32048**

Shaw, Mei-Chi Hölder and L^p estimates for $\overline{\partial}_b$ on weakly pseudoconvex boundaries in $\mathbf{C}^2$. **89c:32049**

Shirokov, N. A. On the uniform closure of polynomials in strictly pseudoconvex domains. (Russian. Armenian summary) **89k:32036**

Stensønes, Berit A zero set for $A^\infty(D)$ of Hausdorff dimension $2n-1$. **89c:32050**

Sultanov, N. R. A pseudoconcave set belonging to a special cone. (Russian) **89i:32039**

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Adachi, Kenzō Extension of holomorphic functions from subvarieties to convex domains. **89k:32027**

Bedford, Eric (*with* Pinchuk, S. I.) Domains in $\mathbf{C}^2$ with noncompact groups of holomorphic automorphisms. **89d:32054**

Bell, Steven R. A generalization of Cartan's theorem to proper holomorphic mappings. **89d:32056**

— Weakly pseudoconvex domains with noncompact automorphism groups. **89h:32052**

— (*with* Catlin, David W.) Regularity of CR mappings. **89i:32028**

Bruna, Joaquim (*with* Burgués i Badia, Josep Ma.) Holomorphic approximation and estimates for the $\overline{\partial}$-equation on strictly pseudoconvex nonsmooth domains. **89g:32024**

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Catlin, David W. *see* **Bell, Steven R., 89i:32028**

Chollet, Anne-Marie Propriétés de recouvrement des sous-ensembles de la frontière d'un domaine strictement pseudo-convexe. [Covering properties of subsets of the boundary of a strictly pseudoconvex domain] **89h:32013**

Diaz, Katharine Perkins The Szegő kernel as a singular integral kernel on a family of weakly pseudoconvex domains. **89d:32009**

Diederich, K. (*with* Fornæss, John Erik) Proper holomorphic mappings between real-analytic pseudoconvex domains in $\mathbf{C}^n$. **89m:32045**

Fornæss, John Erik (*with* Wiegerinck, Jan) A holomorphic reproducing kernel for Kohn-Nirenberg domains in $\mathbf{C}^2$. **89i:32004**

— *see also* **Diederich, K., 89m:32045**

Forstnerič, Franc Regularity of varieties in strictly pseudoconvex domains. **89d:32021**

— Extending proper holomorphic mappings of positive codimension. **89j:32033**

Greene, Robert E. (*with* Krantz, Steven G.) Biholomorphic self-maps of domains. **89i:32063**

Herbort, Gregor ★ Wachstumsordnung des Bergmankerns auf pseudokonvexen Gebieten. (German) [Order of growth of the Bergman kernel on pseudoconvex domains] **89c:32067**

Hickel, Michel Sur un problème de division dans l'algèbre $A^\infty(\Omega)$ d'un ouvert faiblement pseudo-convexe de $\mathbf{C}^2$. [On a division problem in the algebra $A^\infty(\Omega)$ of a weakly pseudoconvex open set in $\mathbf{C}^2$] **89d:32037**

Krantz, Steven G. (*with* Ma, D. W.) Bloch functions on strongly pseudoconvex domains. **89h:32003**

— *see also* **Greene, Robert E., 89i:32063**

Kruzhilin, N. G. Description of the local automorphism groups of real hypersurfaces. **89h:32037**

Lempert, László Complex geometry in convex domains. **89f:32045**

Levenberg, N. On an example of Wermer. **89i:32033**

Ligocka, Ewa The Bergman projection on harmonic functions. **89a:32024**

Lin, En Bing (*with* Wong, Bun) A note on pseudoconvexity and proper holomorphic mappings. **89b:32034**

Lourenço, Mary Lilian Riemann domains over (DFC)-spaces. **89g:46083**

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Maingot, Stéphane Multitype et applications holomorphes propres. (English summary) [Multitype and proper holomorphic mappings] **89d:32057**

Ohsawa, Takeo (*with* Takegoshi, Kenshô) Hodge spectral sequence on pseudoconvex domains. **89d:32042**

Patrizio, Giorgio Boundary value problems for the homogeneous complex Monge-Ampère equation. **89k:32035**

Pinchuk, S. I. *see* **Bedford, Eric, 89d:32054**

Rosay, Jean-Pierre (*with* Stout, Edgar Lee) Radó's theorem for CR-functions. **89m:32028**

Schiltz, Dominique Décomposition de la solution d'un problème de Cauchy homogène près de la frontière d'un domaine d'holomorphie des données de Cauchy. (English summary) [Decomposition of the solution of a homogeneous Cauchy problem near the boundary of a domain of holomorphy for the Cauchy data] **89h:35010**

Shaw, Mei-Chi Prescribing zeros of functions in the Nevanlinna class on weakly pseudoconvex domains in $\mathbf{C}^2$. **89m:32008**

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Watari, Satoru Construction of polynomials on a number of pseudoconvex domains. **89e:32020**

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Zhang, Jin Hao On extension of an analytic subvariety in a strongly pseudoconvex domain. (Chinese. English summary) **89f:32028**

32F20 Geometric results on $\bar{\partial}$-Neumann problems [see also 35N15]

Apostolova, L. N. (*with* Dimiev, S. G.) $\bar{\partial}$-type equations on almost complex manifolds. **89a:32018**
Baouendi, M. S. Complex vector fields, holomorphic extension of CR functions and related problems. **89c:32051**
Boas, Harold P. Small sets of infinite type are benign for the $\bar{\partial}$-Neumann problem. **89g:32026**
Catlin, David W. Regularity of solutions of the $\bar{\partial}$-Neumann problem. **89i:32040**
Chang, Der-Chen E. (*with* Nagel, Alexander; Stein, E. M.) Estimates for the $\bar{\partial}$-Neumann problem for pseudoconvex domains in $\mathbf{C}^2$ of finite type. **89i:32041**
— Optimal L^p and Hölder estimates for the Kohn solution of the $\bar{\partial}$-equation on strongly pseudoconvex domains. **89m:32033**
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Cordaro, P. On the range of the Lewy complex. **89c:32052**
Derridj, Makhlouf (*with* Tartakoff, David S.) Analyticité locale pour le problème $\bar{\partial}$-Neumann en des points de faible pseudoconvexité. (English summary) [Local analyticity for the $\bar{\partial}$-Neumann problem at some weakly pseudoconvex points] **89k:32037**
— Sur l'existence et la régularité de solutions radiales pour des équations de type Monge-Ampère complexe. [Existence and uniqueness of radial solutions of complex Monge-Ampère equations] **89a:32019**
Dimiev, S. G. *see* **Apostolova, L. N., 89a:32018**
Fefferman, Charles (*with* Kohn, Joseph J.) Hölder estimates on domains of complex dimension two and on three-dimensional CR manifolds. **89g:32027**
Jakóbczak, Piotr The local boundary regularity of the solution of the $\bar{\partial}$-equation. **89e:32024**
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Koohara, Akira Function-theoretic properties of solutions of semilinear $\bar{\partial}$-equations: similarity principle. **89d:32043**
Krantz, Steven G. Compactness of the $\bar{\partial}$-Neumann operator. **89f:32032**
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Machedon, Matei Szegő kernels on pseudoconvex domains with one degenerate eigenvalue. **89i:32043**
Michel, Joachim Randregularität des $\bar{\partial}$-Problems für stückweise streng pseudokonvexe Gebiete in $\mathbf{C}^n$. [Boundary regularity of the $\bar{\partial}$-problem for piecewise strictly pseudoconvex domains in $\mathbf{C}^n$] **89f:32033**
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Range, R. Michael Integral representations in the theory of the $\bar{\partial}$-Neumann problem. **89g:32028**
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Zhang, Jin Hao Cohomology vanishing theorem and finitely generated ideals in certain function algebras. **89j:32025**

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Amar, Éric Estimations, par noyaux, des solutions de l'équation $\bar{\partial}u = f$. (English summary) [Estimates using kernels of the solutions of the equation $\bar{\partial}u = f$] **89c:32009**
Beals, Richard (*with* Stanton, Nancy K.) The heat equation for the $\bar{\partial}$-Neumann problem. I. **89b:58199**
— (*with* Greiner, Peter) ★ Calculus on Heisenberg manifolds. **89m:35223**
— (*with* Stanton, Nancy K.) The heat equation for the $\bar{\partial}$-Neumann problem. II. **89e:58112**
Bell, Steven R. Extendibility of the Bergman kernel function. **89b:32032**
— (*with* Catlin, David W.) Regularity of CR mappings. **89i:32028**
Bost, J.-B. Conformal and holomorphic anomalies on Riemann surfaces and determinant line bundles. **89h:58178**
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Christ, Michael Regularity properties of the $\bar{\partial}_b$ equation on weakly pseudoconvex CR manifolds of dimension 3. **89e:32027**
— Pointwise estimates for the relative fundamental solution of $\bar{\partial}_b$. **89d:35126**
Derridj, Makhlouf (*with* Tartakoff, David S.) Local analyticity for $\Box_b$ and the $\bar{\partial}$-Neumann problem at certain weakly pseudoconvex points. **89m:35158**
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Jacobowitz, Howard ★ Homogeneous solvability and CR structures. **89f:35154**
— Systems of homogeneous partial differential equations with few solutions. **89j:35043**
Jerison, David (*with* Sánchez-Calle, Antonio) Subelliptic, second order differential operators. **89b:35021**
Khenkin, G. M. *see* **Novikov, R. G., 89d:35043**
Machedon, Matei Estimates for the parametrix of the Kohn Laplacian on certain domains. **89d:58118**
Maire, H.-M. Necessary and sufficient condition for maximal hypoellipticity of $\bar{\partial}_b$. **89k:35055**
Miyajima, Kimio Subellipticity at higher degree of a boundary condition associated with construction of the versal family of strongly pseudoconvex domains. **89c:32056**
Novikov, R. G. (*with* Khenkin, G. M.) The $\bar{\partial}$-equation in the multidimensional inverse scattering problem. (Russian) **89d:35043**
Sánchez-Calle, Antonio *see* **Jerison, David, 89b:35021**
Shaw, Mei-Chi Hölder and L^p estimates for $\bar{\partial}_b$ on weakly pseudoconvex boundaries in $\mathbf{C}^2$. **89c:32049**
Stanton, Nancy K. *see* **Beals, Richard, 89b:58199** *and* **89e:58112**
Tartakoff, David S. *see* **Derridj, Makhlouf, 89m:35158**

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Annals of Mathematics Studies *see* **Beals, Richard, 89m:35223**

32F25 Real submanifolds in complex manifolds

Baouendi, M. S. (*with* Rothschild, L. P.) Embeddability of abstract CR structures and integrability of related systems. (French summary) **89c:32053**
Barrett, David E. A remark on the global embedding problem for three-dimensional CR manifolds. **89h:32035**
Catlin, David W. A Newlander-Nirenberg theorem for manifolds with boundary. **89j:32026**
Chêng, Jih Hsin On the curvature of CR-structures and its covariant derivatives. **89b:32023**
— Chain-preserving diffeomorphisms and CR equivalence. **89h:32036**
D'Angelo, John P. The notion of formal essential finiteness for smooth real hypersurfaces. **89c:32054**
Eastwood, Michael G. The Hill-Penrose-Sparling CR manifolds. **89e:32025**
Graham, Carl Scalar boundary invariants and the Bergman kernel. **89d:32045**
Koch, Lisa K. Chains on CR manifolds and Lorentz geometry. **89k:32038**
Kruzhilin, N. G. Description of the local automorphism groups of real hypersurfaces. **89h:32037**
— *see also* **Vitushkin, A. G., 89k:32039**
Lee, John M. Pseudo-Einstein structures on CR manifolds. **89f:32034**
Manin, Yu. I. (*with* Shekhtman, V. V.) Distributions of real hyperplanes and the Zamolodchikov equations. (Russian) **89h:32038**
Rothschild, L. P. *see* **Baouendi, M. S., 89c:32053**
Shekhtman, V. V. *see* **Manin, Yu. I., 89h:32038**
Veloso, J. (*with* Verderesi, J.) Three-dimensional Cauchy-Riemann manifolds. **89b:32024**
Verderesi, J. *see* **Veloso, J., 89b:32024**
Vitushkin, A. G. (*with* Kruzhilin, N. G.) Description of the automorphism groups of real hypersurfaces of complex space. (Russian) **89k:32039**

Items with secondary classifications in 32F25

Abrosimov, A. V. Locally biholomorphic equivalence of smooth hypersurfaces in $\mathbf{C}^2$. **89g:32039**
An, You Shan A metric on the Heisenberg group H_n. (Chinese) (Not in MR)
Beatrous, Frank (*with* Li, Song Ying) A Plessner decomposition along transverse curves. **89i:32009**
Burns, Daniel M., Jr. (*with* Epstein, C. L.) A global invariant for three-dimensional CR-manifolds. **89b:53060**
Chêng, Jih Hsin Graded Lie algebras of the second kind. **89a:17029**
Christ, Michael Regularity properties of the $\bar{\partial}_b$ equation on weakly pseudoconvex CR manifolds of dimension 3. **89e:32027**
Deshmukh, Sharief Reduction in codimension of mixed foliate CR-submanifolds of a Kaehler manifold. **89f:53076**
Epstein, C. L. *see* **Burns, Daniel M., Jr., 89b:53060**
Faran, James J., V Local invariants of foliations by real hypersurfaces. **89j:53030**
Fefferman, Charles (*with* Kohn, Joseph J.) Hölder estimates on domains of complex dimension two and on three-dimensional CR manifolds. **89g:32027**
Gigante, Giuliana Symmetries on compact pseudo-Hermitian manifolds. (Italian summary) **89f:53099**
Hanges, Nicholas The missing first integral. **89j:32016**
Jacobowitz, Howard Systems of homogeneous partial differential equations with few solutions. **89j:35043**
Jerison, David (*with* Lee, John M.) Extremals for the Sobolev inequality on the Heisenberg group and the CR Yamabe problem. **89b:53063**
Kimura, Makoto Some real hypersurfaces of a complex projective space. **89d:53099**
Kohn, Joseph J. *see* **Fefferman, Charles, 89g:32027**
Laurent-Thiébaut, Christine Extension de formes différentielles CR. (English summary) [Extension of CR differential forms] **89e:32039**
Lee, John M. *see* **Jerison, David, 89b:53063**
Li, Song Ying *see* **Beatrous, Frank, 89i:32009**
Nurowski, Paweł (*with* Tafel, Jacek) Symmetries of Cauchy-Riemann spaces. **89c:53027**
Rosay, Jean-Pierre (*with* Stout, Edgar Lee) Radó's theorem for CR-functions. **89m:32028**
Stensønes, Berit Extendability of holomorphic functions. **89d:32032**
Stout, Edgar Lee *see* **Rosay, Jean-Pierre, 89m:32028**
Tabachnikov, S. L. An invariant of a submanifold that is transversal to a distribution. **89m:58077**
Tafel, Jacek *see* **Nurowski, Paweł, 89c:53027**

32F30 Pseudoconvex manifolds

Colţoiu, Mihnea A remark on a theorem of Vo Van Tan. **89e:32026**

Items with secondary classifications in 32F30

Christ, Michael Pointwise estimates for the relative fundamental solution of $\bar{\partial}_b$. **89d:35126**
Gigante, Giuliana The cohomology of pseudo-Hermitian manifolds with torsion zero. (Italian. English summary) **89a:53076**
Kodama, Akio Characterizations of certain weakly pseudoconvex domains $E(k, \alpha)$ in $\mathbf{C}^n$. **89i:32038**
Nishihara, Masaru On a pseudoconvex domain spread over a complex projective space induced from a complex Banach space with a Schauder basis. **89a:32012**
Vo Van Tan On the compactification of strongly pseudoconvex surfaces. III. **89g:32041**

32F99 None of the above, but in this section

Boggess, A. (*with* Dwilewicz, R.) Subaveraging estimates for CR functions. **89j:32027**
Christ, Michael Regularity properties of the $\bar{\partial}_b$ equation on weakly pseudoconvex CR manifolds of dimension 3. **89e:32027**
Dwilewicz, R. *see* **Boggess, A., 89j:32027**
Tian, Gang (*with* Yau, S.-T.) Existence of Kähler-Einstein metrics on complete Kähler manifolds and their applications to algebraic geometry. (*see* **89m:81001**)
Yau, S.-T. *see* **Tian, Gang**, (**89m:81001**)

Items with secondary classifications in 32F99

Aoki, Takashi (*with* Tajima, Shinichi) On a generalization of Bochner's tube theorem for generic CR-submanifolds. **89d:32034**

Berger, M. S. (*with* Cherrier, P.) A new variational method for finding Einstein metrics on compact Kähler manifolds. I. **89e:53098**

Cherrier, P. *see* **Berger, M. S., 89e:53098**

Fiedler, Thomas Totally real embeddings of the torus into $\mathbf{C}^2$. **89f:57043**

Kutev, N. *see* **Popivanov, P., 89m:35074**

Lempert, László Holomorphic invariants, normal forms, and the moduli space of convex domains. **89i:32053**

Popivanov, P. (*with* Kutev, N.) Solvability of the degenerate complex Monge-Ampère equation. **89m:35074**

Tajima, Shinichi *see* **Aoki, Takashi, 89d:32034**

Tóth, Gábor Toroidal Lie group actions on compact Riemannian manifolds and their relations to the fibering problem. **89j:53043**

Trautman, Andrzej Cauchy-Riemann structures in general relativity. **89c:53061**

Vinacua, Alvaro Nonlinear elliptic equations and the complex Hessian. **89m:35083**

32Gxx Deformations of analytic structures

Palamodov, V. P. Deformations of complex spaces. (Russian) **89f:32035**

32G05 Deformations of complex structures [see also 13D10, 16A58, 58H10, 58H15]

Bingener, Jürgen Splitting theorems for PO-complexes. **89c:32058**

— Analytic moduli spaces as orbit spaces. **89c:32059**

— Local moduli for strictly pseudoconvex spaces. **89c:32061**

Corlette, Kevin Gauge theory and representations of Kähler groups. **89k:32040**

Flenner, Hubert (*with* Kosarew, Siegmund) On locally trivial deformations. **89c:32055**

Fujiki, Akira (*with* Schumacher, Georg) The moduli space of Kähler structures on a real compact symplectic manifold. **89k:32041**

Horikawa, Eiji Local deformation of pencil of curves of genus two. **89m:32034**

Kosarew, Siegmund *see* **Flenner, Hubert, 89c:32055**

Miyajima, Kimio Subellipticity at higher degree of a boundary condition associated with construction of the versal family of strongly pseudoconvex domains. **89c:32056**

Peternell, Thomas On the rigidity problem for the complex projective space. **89f:32036**

Schumacher, Georg *see* **Fujiki, Akira, 89k:32041**

Yamada, Asahiko Small deformations of certain compact manifolds of class L. II. **89d:32046**

Yoshinaga, Etsuo The modified analytic trivialization of real analytic families via blowing-ups. **89d:32047**

Items with secondary classifications in 32G05

Friedman, Robert David (*with* Morgan, John W.) Algebraic surfaces and 4-manifolds: some conjectures and speculations. **89g:57046**

Gindikin, S. G. A construction of hyper-Kähler metrics. (Russian) **89c:53030**

Hayes, Sandra The spectrum and its relation to complex analysis. **89m:32020**

Morgan, John W. *see* **Friedman, Robert David, 89g:57046**

Mori, Hiroshi (*with* Watanabe, Yoshiyuki) A Kähler deformation of $\mathbf{CP}^n$. **89f:53101**

Nakamura, Iku Moishezon threefolds homeomorphic to $\mathbf{P}^3$. **89b:32035**

Parusiński, Adam Regular projections for sub-analytic sets. (French summary) **89k:32012**

Romero, Alfonso An extension of Calabi's rigidity theorem to complex submanifolds of indefinite complex space forms. **89a:53064**

Salvetti, Mario On the number of nonequivalent differentiable structures on 4-manifolds. **89m:57036**

Vesentini, Edoardo Holomorphic families of holomorphic isometries. **89f:32046**

Watanabe, Yoshiyuki *see* **Mori, Hiroshi, 89f:53101**

Wehler, Joachim Hypersurfaces of the flag variety: deformation theory and the theorems of Kodaira-Spencer, Torelli, Lefschetz, M. Noether and Serre. **89g:32051**

Zucker, Steven M. L_2-cohomology and intersection homology of locally symmetric varieties. II. **89i:32073**

32G07 Deformations of special (e.g. CR) structures

Apanasov, B. N. Thurston's bends and geometric deformations of conformal structures. **89c:32057**

Kobayashi, Ryoichi (*with* Todorov, A. N.) Polarized period map for generalized $K3$ surfaces and the moduli of Einstein metrics. **89g:32029**

Todorov, A. N. *see* **Kobayashi, Ryoichi, 89g:32029**

Vaintrob, A. Yu. Deformations and moduli of supermanifolds. (Russian) (*see* **89d:81001**)

Items with secondary classifications in 32G07

Cecotti, S. (*with* Ferrara, S.; Girardello, L.) A topological formula for the Kähler potential of 4D $N = 1, 2$ strings, and its implications for the moduli problem. **89m:53131**

Ferrara, S. (*with* Porrati, Massimo) The manifolds of scalar background fields in Z_N orbifolds. **89m:53132**

— *see also* **Cecotti, S.; et al., 89m:53131**

Girardello, L. *see* **Cecotti, S.; et al., 89m:53131**

Porrati, Massimo *see* **Ferrara, S., 89m:53132**

Tsuji, Hajime Existence and degeneration of Kähler-Einstein metrics on minimal algebraic varieties of general type. **89e:53075**

32G10 Deformations of submanifolds and subspaces

Bingener, Jürgen Local moduli spaces in analytic geometry. **89c:32060**

Campana, F. Rigidité des fibres des réductions algébriques. [Rigidity of the fibers of algebraic reductions] **89d:32048**

Gómez-Mont, Xavier The transverse dynamics of a holomorphic flow. **89d:32049**

Green, Mark (*with* Lazarsfeld, Robert) Deformation theory, generic vanishing theorems, and some conjectures of Enriques, Catanese and Beauville. **89b:32025**

Kosarew, Siegmund On some new results on the formal principle for embeddings. **89e:32028**

Lazarsfeld, Robert *see* **Green, Mark, 89b:32025**

Szpirglas, Aviva Quelques résultats sur le schéma de Hilbert de $\mathbf{C}^p$ des sous-ensembles analytiques compacts de dimension 0 de $\mathbf{C}^p$. [Some results on the Hilbert scheme of $\mathbf{C}^p$ of the compact analytic subsets of dimension 0 of $\mathbf{C}^p$] **89c:32062**

Items with secondary classifications in 32G10

Gindikin, S. G. Manifolds of rational curves and nonlinear equations. **89m:32051**

Green, Mark (*with* Lazarsfeld, Robert) A deformation theory for cohomology of analytic vector bundles on Kähler manifolds, with applications. (*see* **89m:81001**)

Greene, Brian R. (*with* Kirklin, Kelley H.) On the equivalence of the two most favoured Calabi-Yau compactifications. **89b:32017**

Kirklin, Kelley H. *see* **Greene, Brian R., 89b:32017**

Lazarsfeld, Robert *see* **Green, Mark, (89m:81001)**

Nakajima, Hiraku Removable singularities for Yang-Mills connections in higher dimensions. **89d:58029**

Varouchas, J. Kähler spaces and proper open morphisms. **89m:32021**

32G11 Deformations of singularities

Barlet, D. L'espace des feuilletages d'un espace analytique compact. (English summary) [The space of foliations of a compact analytic space] **89d:32050**

Cassou-Noguès, Pierrette Étude du comportement du polynôme de Bernstein lors d'une déformation à μ-constant de $X^a + Y^b$ avec $(a, b) = 1$. [Study of the behavior of the Bernstein polynomial under a μ-constant deformation of $X^a + Y^b$, with $(a, b) = 1$] **89k:32042**

Ebeling, Wolfgang ★ The monodromy groups of isolated singularities of complete intersections. **89d:32051**

Givental', A. B. Twisted Picard-Lefschetz formulas. **89f:32037**

Sapronov, Yu. I. Corner singularities and multidimensional folds. **89h:32039**

Smith, Roy Campbell (*with* Varley, Robert) Tangent cones to discriminant loci for families of hypersurfaces. **89e:32029**

Suwa, Tatsuo The versality theorem for RL-morphisms of foliation unfoldings. **89e:32030**

Varchenko, A. N. The image of period mappings for simple singularities. (Russian) **89j:32028a**

— Image of period mapping for simple singularities. **89j:32028b**

Varley, Robert *see* **Smith, Roy Campbell, 89e:32029**

Items with secondary classifications in 32G11

Aleksandrov, A. G. Euler-homogeneous singularities and logarithmic differential forms. **89i:32022**

Arnol'd, V. I. (*with* Guseĭn-Zade, S. M.; Varchenko, A. N.) ★ Singularities of differentiable maps. Vol. II. **89g:58024**

Ebeling, Wolfgang Vanishing lattices and monodromy groups of isolated complete intersection singularities. **89b:14003**

Edwards, Sarah Ann (*with* Wall, C. T. C.) Nets of quadrics and deformations of $\Sigma^{3(3)}$ singularities. **89i:58011**

Guseĭn-Zade, S. M. *see* **Arnol'd, V. I.; et al., 89g:58024**

Kluitmann, Paul ★ Ausgezeichnete Basen erweiterter affiner Wurzelgitter. (German) [Distinguished bases of extended affine root lattices] **89g:32015**

Laudal, Olav Arnfinn (*with* Pfister, Gerhard) ★ Local moduli and singularities. **89h:14008**

(Martin, Bernd) *see* **Laudal, Olav Arnfinn, 89h:14008**

Massey, David B. The Lê-Ramanujam problem for hypersurfaces with one-dimensional singular sets. **89k:32015**

(Montaldi, J.) *see* **Arnol'd, V. I.; et al., 89g:58024**

Neumann, Walter D. (*with* Rudolph, Lee) Unfoldings in knot theory. **89j:57017a**

— (*with* Rudolph, Lee) Corrigendum: "Unfoldings in knot theory". **89j:57017b**

Oda, Tadao K. Saito's period map for holomorphic functions with isolated critical points. **89j:32030**

Pfister, Gerhard *see* **Laudal, Olav Arnfinn, 89h:14008**

Pham, F. Remarque sur une notion de déploiement introduite par K. Saito. [Remark on a notion of unfolding introduced by K. Saito] **89b:58034**

(Porteous, Hugh) *see* **Arnol'd, V. I.; et al., 89g:58024**

Rudolph, Lee *see* **Neumann, Walter D., 89j:57017a** *and* **89j:57017b**

Shustin, E. I. Versal deformations in a space of plane curves of fixed degree. (Russian) **89a:14034**

Varchenko, A. N. Period mapping and discriminant. **89f:32014**

— *see also* **Arnol'd, V. I.; et al., 89g:58024**

Wall, C. T. C. *see* **Edwards, Sarah Ann, 89i:58011**

Wirthmüller, Klaus The discriminants of a series of unimodular singularities of space curves. **89d:32026**

Yoshinaga, Etsuo The modified analytic trivialization of real analytic families via blowing-ups. **89d:32047**

32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20.}

Beauville, Arnaud Le problème de Torelli. [The Torelli problem] **89a:32020**

Bingener, Jürgen ★ Lokale Modulräume in der analytischen Geometrie. Band 1. (German) [Local moduli spaces in analytic geometry. Vol. 1] **89h:32040**

— ★ Lokale Modulräume in der analytischen Geometrie. Band 2. (German) [Local moduli spaces in analytic geometry. Vol. 2] **89h:32041**

Boyer, Charles P. (*with* Mann, Benjamin M.) Monopoles, nonlinear σ models, and two-fold loop spaces. **89g:32030**

Cohn, J. D. Modular geometry of superconformal field theory. **89m:32035**

Hitchin, Nigel The self-duality equations on a Riemann surface. **89a:32021**

Kondō, Shigeyuki On the Albanese variety of the moduli space of polarized $K3$ surfaces. **89d:32052**
Kosarew, Siegmund Modulräume holomorpher Abbildungen auf konkaven komplexen Räumen. [Moduli spaces of holomorphic mappings onto concave complex spaces] **89c:32063**
— *see also* **Bingener, Jürgen, 89h:32040** *and* **89h:32041**
Mann, Benjamin M. *see* **Boyer, Charles P., 89g:32030**
Schumacher, Georg Moduli spaces of polarized Kähler manifolds. **89h:32042**
Selder, Erich On the Torelli problem of abelian complex Lie groups. **89m:32036**
Siu, Yum Tong Strong rigidity for Kähler manifolds and the construction of bounded holomorphic functions. **89i:32044**
Stieber, Harald ★ Existenz semiuniverseller Deformationen in der komplexen Analysis. (German) [Existence of semiuniversal deformations in complex analysis] **89f:32038**
Tian, Gang Smoothness of the universal deformation space of compact Calabi-Yau manifolds and its Petersson-Weil metric. (*see* **89m:81001**)

Items with secondary classifications in 32G13

Alvarez, Orlando (*with* Windey, P.) The geometrical meaning of currents in string theory. (*see* **89m:81001**)
Aspinwall, P. S. (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Searching for three-generation Calabi-Yau manifolds. **89e:53071**
Bardelli, Fabio On Grothendieck's generalized Hodge conjecture for a family of threefolds with geometric genus one (a study of the Abel-Jacobi map). **89c:14011**
Barlet, D. L'espace des feuilletages d'un espace analytique compact. (English summary) [The space of foliations of a compact analytic space] **89d:32050**
Beauville, Arnaud Annulation du H^1 et systèmes paracanoniques sur les surfaces. [Vanishing of H^1 and paracanonical systems on surfaces] **89i:14032**
Bhosle, Usha N. Moduli of parabolic G-bundles. **89i:32057**
Bingener, Jürgen Local moduli spaces in analytic geometry. **89c:32060**
— Local moduli for strictly pseudoconvex spaces. **89c:32061**
Bismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Torsion analytique et fibrés déterminants holomorphes. (English summary) [Analytic torsion and holomorphic determinant bundles] **89b:58201**
Catanese, F. Moduli of algebraic surfaces. **89i:14031**
Cox, David A. Generic Torelli and infinitesimal variation of Hodge structure. **89d:14014**
Cvetič, Mirjam (*with* Louis, Jan; Ovrut, Burt A.) A string calculation of the Kähler potentials for moduli of Z_N orbifolds. **89j:83074**
Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
Flaherty, F. J. Instantons on the quaternionic Siegel space. **89f:53047**
Friedman, Robert David (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. I. **89d:57046**
— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. II. **89d:57047**
Furuta, Mikio Perturbation of moduli spaces of self-dual connections. **89g:57019**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Goldman, William M. (*with* Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. **89f:53100**
Gómez-Mont, Xavier Universal families of foliations by curves. **89d:32067**
Greene, Brian R. *see* **Aspinwall, P. S.; et al., 89e:53071**
Hattori, Akio Topology of the moduli space of SU(2)-instantons with instanton number 2. **89m:53134**
Idà, Monica A remark on the algebraic deformations of some complex structures. (Russian summary) **89a:14050**
Itoh, Mitsuhiro Geometry of anti-self-dual connections and Kuranishi map. **89a:53037**
— Gauge fields and quaternion structure. **89m:53076**
Kirklin, Kelley H. *see* **Aspinwall, P. S.; et al., 89e:53071**
Kobayashi, Ryoichi (*with* Todorov, A. N.) Polarized period map for generalized $K3$ surfaces and the moduli of Einstein metrics. **89g:32029**
Lempert, László Holomorphic invariants, normal forms, and the moduli space of convex domains. **89i:32053**
Louis, Jan *see* **Cvetič, Mirjam; et al., 89j:83074**
Lübke, Martin (*with* Okonek, Christian) Differentiable structures of elliptic surfaces with cyclic fundamental group. **89d:57048**
Melzer, Ezer $N = 2$ supertori and their representation as algebraic curves. **89f:32039**
Millson, John J. *see* **Goldman, William M., 89f:53100**
Miron, Paul *see* **Aspinwall, P. S.; et al., 89e:53071**
Morgan, John W. (*with* Shalen, Peter B.) Degenerations of hyperbolic structures. II. Measured laminations in 3-manifolds. **89e:57010a**
— (*with* Shalen, Peter B.) Degenerations of hyperbolic structures. III. Actions of 3-manifold groups on trees and Thurston's compactness theorem. **89e:57010b**
— *see also* **Friedman, Robert David, 89d:57046** *and* **89d:57047**
Mukai, Shigeru Moduli of vector bundles on $K3$ surfaces and symplectic manifolds. (Japanese) **89h:32057**
Nadel, Alan Singularities and Kodaira dimension of the moduli space of flat Hermitian-Yang-Mills connections. **89k:32056**
Nakamura, Iku Moishezon threefolds homeomorphic to $\mathbf{P}^3$. **89b:32035**
Noguchi, Junjiro Moduli spaces of holomorphic mappings into hyperbolically imbedded complex spaces and locally symmetric spaces. **89j:32031**
Ofman, Salomon Injectivité de la transformation obtenue par intégration sur les cycles analytiques. A. Cas d'une variété kählérienne compacte. [Injectivity of the transformation obtained by integration over analytic cycles. A. The case of a compact Kähler manifold] **89h:32021a**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. B. Cas d'une variété algébrique projective privée d'un point. [Injectivity of the transformation obtained by integration over analytic cycles. B. The case of a projective algebraic variety with one point removed] **89h:32021b**
— Injectivité de la transformation obtenue par intégration sur les cycles analytiques. C. Cas du complémentaire d'une sous-variété. [Injectivity of the transformation obtained by integration over analytic cycles. C. The case of the complement of a submanifold] **89h:32021c**
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Ovrut, Burt A. *see* **Cvetič, Mirjam; et al., 89j:83074**
Peters, C. A. M. On Arakelov's finiteness theorem for higher-dimensional varieties. **89e:14043**
Polchinski, J. From Polyakov to moduli. (*see* **89m:81001**)
Reiffen, Hans-Jörg The variety of a moduli of foliations on a complex space. **89i:32061**
Ross, Graham G. Discrete symmetries and the complex structure of Calabi-Yau manifolds. **89c:32072**
Ruback, Peter Sigma model solitons and their moduli space metrics. **89f:81110**
Salvetti, Mario On the number of nonequivalent differentiable structures on 4-manifolds. **89m:57036**
Schimmrigk, Rolf A new construction of a three-generation Calabi-Yau manifold. **89e:53072**
Shalen, Peter B. *see* **Morgan, John W., 89e:57010a** *and* **89e:57010b**
Shvarts, A. S. The fermion string and a universal modulus space. **89h:81232**
Sontag, Eduardo D. A remark on bilinear systems and moduli spaces of instantons. **89g:93022**
Soulé, C. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Todorov, A. N. *see* **Kobayashi, Ryoichi, 89g:32029**
Varchenko, A. N. Combinatorics and topology of the arrangement of affine hyperplanes in the real space. (Russian) **89c:32029**
Walton, Mark A. Heterotic string on the simplest Calabi-Yau manifold and its orbifold limits. **89g:81106**
Wheater, J. F. The instantons of surfaces in four dimensions. **89h:53134**
Windey, P. *see* **Alvarez, Orlando**, (**89m:81001**)
Yamada, Asahiko Small deformations of certain compact manifolds of class L. II. **89d:32046**
Yau, S.-T. Uniformization of geometric structures. **89k:53046**

32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

Crane, Louis (*with* Rabin, Jeffrey M.) Super Riemann surfaces: uniformization and Teichmüller theory. **89c:32064**
Earle, Clifford J. (*with* Kra, Irwin) Positive divisors and Poincaré series on variable Riemann surfaces. **89d:32053**
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Wehler, Joachim Hypersurfaces of the flag variety: deformation theory and the theorems of Kodaira-Spencer, Torelli, Lefschetz, M. Noether and Serre. **89g:32051**
Zucker, Steven M. Degeneration of mixed Hodge structures. **89c:32073**

32G99 None of the above, but in this section

Items with secondary classifications in 32G99

Batchelor, Marjorie (*with* Bryant, Peter R.) Graded Riemann surfaces. **89b:58022**
Bryant, Peter R. *see* **Batchelor, Marjorie, 89b:58022**
Canary, R. D. (*with* Epstein, D. B. A.; Green, Paul) Notes on notes of Thurston. **89e:57008**
De Concini, C. (*with* Goresky, R. Mark; MacPherson, R.; Procesi, C.) On the geometry of quadrics and their degenerations. **89k:14082**
Epstein, D. B. A. *see* **Canary, R. D.; et al., 89e:57008**
Goresky, R. Mark *see* **De Concini, C.; et al., 89k:14082**
Green, Paul *see* **Canary, R. D.; et al., 89e:57008**
Jurchescu, M. Coherent sheaves on mixed manifolds. **89j:32038**
Kobayashi, Ryoichi (*with* Naruki, Isao) Holomorphic conformal structures and uniformization of complex surfaces. **89j:32035**
Kosarew, Siegmund Ein allgemeines Kriterium für das formale Prinzip. [A general criterion for the formal principle] **89m:32022**
Krushkal′, S. L. Extension of conformal mappings and hyperbolic metrics. **89f:30039**
Lemaire, L. La géométrie des variétés de dimension quatre. [The geometry of four-dimensional manifolds] **89f:57024**
MacPherson, R. *see* **De Concini, C.; et al., 89k:14082**
Naruki, Isao *see* **Kobayashi, Ryoichi, 89j:32035**
Ohsawa, Takeo On the rigidity of noncompact quotients of bounded symmetric domains. **89i:32072**
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Raina, A. K. *see* **Sen, Siddhartha^1, 89m:81163**
Roslyĭ, A. A. (*with* Shvarts, A. S.; Voronov, A. A.) Geometry of superconformal manifolds. **89m:58015**
Sen, Siddhartha^1 (*with* Raina, A. K.) Grassmannians, multiplicative Ward identities and theta-function identities. **89m:81163**
Shvarts, A. S. *see* **Roslyĭ, A. A.; et al., 89m:58015**
(Thurston, W. P.) *see* **Canary, R. D.; et al., 89e:57008**
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32Hxx Holomorphic mappings

32H05 Representative domains

Bedford, Eric (*with* Pinchuk, S. I.) Domains in $\mathbf{C}^2$ with noncompact groups of holomorphic automorphisms. **89d:32054**
Mazur, Tomasz A construction of eigenvectors for the canonical isometry. **89k:32045**
Pinchuk, S. I. *see* **Bedford, Eric, 89d:32054**

Items with secondary classifications in 32H05

D'Angelo, John P. Polynomial proper maps between balls. **89j:32032**
Dineen, S. (*with* Klimek, Maciej; Timoney, R. M.) Biholomorphic mappings and Banach function modules. **89j:46049**
Gorgula, V. I. (*with* Nagnibida, N. I.) A special polynomial basis of a space of analytic functions. **89f:30007**
Klimek, Maciej *see* **Dineen, S.; et al., 89j:46049**
Machedon, Matei Estimates for the parametrix of the Kohn Laplacian on certain domains. **89d:58118**
Nagnibida, N. I. *see* **Gorgula, V. I., 89f:30007**
Timoney, R. M. *see* **Dineen, S.; et al., 89j:46049**

32H10 Bergman kernel function

Bell, Steven R. Extendibility of the Bergman kernel function. **89b:32032**
Coupet, Bernard Le dual des fonctions holomorphes intégrables sur un domaine strictement pseudo-convexe. (English summary) [The dual of the space of integrable holomorphic functions in a strictly pseudoconvex domain] **89e:32034**
Dwilewicz, R. Bergman-Szegő type theory for CR structures. **89f:32042**
Herbort, Gregor ★ Wachstumsordnung des Bergmankerns auf pseudokonvexen Gebieten. (German) [Order of growth of the Bergman kernel on pseudoconvex domains] **89c:32067**
Ligocka, Ewa The Bergman projection on harmonic functions. **89a:32024**
Nagel, Alexander (*with* Rosay, Jean-Pierre; Stein, E. M.; Wainger, Stephen) Estimates for the Bergman and Szegő kernels in certain weakly pseudoconvex domains. **89a:32025**
Peetre, Jaak Reproducing formulae for holomorphic tensor fields. (Italian summary) **89k:32046**
Rosay, Jean-Pierre *see* **Nagel, Alexander; et al., 89a:32025**
Stein, E. M. *see* **Nagel, Alexander; et al., 89a:32025**
Wainger, Stephen *see* **Nagel, Alexander; et al., 89a:32025**

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Bell, Steven R. Weakly pseudoconvex domains with noncompact automorphism groups. **89h:32052**
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Gong, Sheng On Reinhardt domains. I. (Chinese) **89c:32043**
Graham, Carl Scalar boundary invariants and the Bergman kernel. **89d:32045**
Izuchi, Keiji A function theoretic proof of Axler's zero multiplier theorem. **89f:46053**
Kolaski, Clinton J. Surjective isometries of weighted Bergman spaces. **89m:46042**
Ligocka, Ewa On the reproducing kernel for harmonic functions and the space of Bloch harmonic functions on the unit ball in $\mathbf{R}^n$. **89f:46054a**
— On the space of Bloch harmonic functions and interpolation of spaces of harmonic and holomorphic functions. **89f:46054b**
— On duality and interpolation for spaces of polyharmonic functions. **89f:46054c**
Machedon, Matei Szegő kernels on pseudoconvex domains with one degenerate eigenvalue. **89i:32043**
Martin, Mircea An operator theoretic approach to analytic functions into a Grassmann manifold. **89f:47021**
Saitoh, Saburou Applications of the general theory of reproducing kernels. **89c:46040**
Zhu, Ke He The Bergman spaces, the Bloch space, and Gleason's problem. **89j:46025**

32H15 Invariant metrics and pseudodistances

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Chinak, M. A. Weakly hyperbolic manifolds. **89e:32035**
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— Regular complex geodesics for the domain $D_n = \{(z_1, \cdots, z_n) \in \mathbf{C}^n\colon |z_1| + \cdots + |z_n| < 1\}$. **89f:32044**
— Complex geodesics: nonuniqueness and related questions. **89m:32042**
Graham, Ian Intrinsic measures on complex manifolds. (Serbo-Croatian summary) **89h:32047**
— Intrinsic measures and holomorphic retracts. **89a:32026**
— Holomorphic mappings into strictly convex domains which are Kobayashi isometries at one point. **89k:32048**
Hahn, K. T. (*with* Pflug, Peter) The Kobayashi and Bergman metrics on generalized Thullen domains. **89m:32043**
Horst, Camilla Two examples concerning hyperbolic quotients. **89a:32027**
Hu, Mên Cháng *see* **Chang, Ch'ing Hui; et al., 89f:32043**
Jarnicki, M. (*with* Pflug, Peter) Effective formulas for the Carathéodory distance. **89m:32044**
Khristov, Valentin Zdravkov A property of typical Kobayashi pseudodistance on compact complex spaces. **89a:32028**
— Maximum principle and Schwarz lemma for the Möbius and Carathéodory distances on bounded complete circular domains in $\mathbf{C}^n$. **89k:32049**
Klimek, Maciej Infinitesimal pseudometrics and the Schwarz lemma. **89k:32050**
Kuczumow, Tadeusz (*with* Stachura, Adam) Extensions of nonexpansive mappings in the Hilbert ball with the hyperbolic metric. I, II. **89k:32051**
Lempert, László Complex geometry in convex domains. **89f:32045**
Li, Hsüan Pei *see* **Chang, Ch'ing Hui; et al., 89f:32043**
Patrizio, Giorgio The Kobayashi metric and the homogeneous complex Monge-Ampère equation. **89c:32068**
— Disques extrémaux de Kobayashi et équation de Monge-Ampère complexe. (English summary) [Extremal disks of Kobayashi and the complex Monge-Ampère equation] **89b:32033**
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Vigué, Jean-Pierre Sur la caractérisation des automorphismes analytiques d'un domaine borné. [On the characterization of analytic automorphisms of a bounded domain] **89a:32029**
Zhang, Jin Hao On continuity of the Kobayashi differential metric. (Chinese. English summary) **89i:32051**
— Metric S on holomorphy domain. **89k:32052**

Items with secondary classifications in 32H15

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Forstnerič, Franc (*with* Rosay, Jean-Pierre) Localization of the Kobayashi metric and the boundary continuity of proper holomorphic mappings. **89c:32070**
Gilligan, Bruce On the Kobayashi pseudometric reduction of homogeneous spaces. **89e:32044**
Jezuita, Kazimierz (*with* Skwarczyński, Maciej) Holomorphic geometry of space-time. (Polish summary) **89h:53059**
Kobayashi, Shoshichi Projectively invariant distances for affine and projective structures. **89k:53043**
Krantz, Steven G. (*with* Ma, D. W.) Bloch functions on strongly pseudoconvex domains. **89h:32003**
Krushkal′, S. L. Extension of conformal mappings and hyperbolic metrics. **89f:30039**
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Skwarczyński, Maciej *see* **Jezuita, Kazimierz, 89h:53059**
Timoney, R. M. *see* **Dineen, S., 89a:46102**
Yin, Wei Ping Invariant metrics on Reinhardt domains and group invariant functions. (Chinese) (Not in MR)
— Curvatures and invariant functions. **89i:32064**
Zaĭdenberg, M. G. Stability of hyperbolic embeddedness and the construction of examples. **89f:32047**

32H20 Hyperbolic complex manifolds

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Vesentini, Edoardo Holomorphic families of holomorphic isometries. **89f:32046**
Zaĭdenberg, M. G. Stability of hyperbolic embeddedness and the construction of examples. **89f:32047**

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Bourdon, Paul *see* **Axler, Sheldon, 89f:46051**
Chang, Ch'ing Hui (*with* Hu, Mên Cháng; Li, Hsüan Pei) Extremal analytic discs with prescribed boundary data. **89f:32043**
Chinak, M. A. Imbedding of hyperbolic manifolds into a projective space. (Russian) **89m:53119**
— Weakly hyperbolic manifolds. **89e:32035**
Gavrilov, V. I. (*with* Zakharyan, V. S.) Conditions for the normality of families of holomorphic mappings. (Russian. Armenian summary) **89h:32006**
Hahn, K. T. (*with* Pflug, Peter) The Kobayashi and Bergman metrics on generalized Thullen domains. **89m:32043**
Hu, Mên Cháng *see* **Chang, Ch'ing Hui; et al., 89f:32043**
Kodama, Akio On the structure of a bounded domain with a special boundary point. **89e:32042a**
— On the structure of a bounded domain with a special boundary point. II. **89e:32042b**
— Characterizations of certain weakly pseudoconvex domains $E(k, \alpha)$ in $\mathbf{C}^n$. **89i:32038**
Kruzhilin, N. G. Holomorphic automorphisms of hyperbolic Reinhardt domains. **89d:32002**
Lempert, László Complex geometry in convex domains. **89f:32045**
Li, Hsüan Pei *see* **Chang, Ch'ing Hui; et al., 89f:32043**
Ono, Kaoru On the holomorphicity of harmonic maps from compact Kähler manifolds to hyperbolic Riemann surfaces. **89g:58056**
Pflug, Peter *see* **Hahn, K. T., 89m:32043**
Vesentini, Edoardo Isométries holomorphes. [Holomorphic isometries] **89j:32040**
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32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Järvi, Pentti An extension theorem for normal functions. **89h:32048**
Langmann, Klaus Endlichkeits- und Picard-Sätze für quasiprojektive Räume. [Finiteness theorems and Picard theorems for quasiprojective spaces] **89d:32055**

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Noguchi, Junjiro Moduli spaces of holomorphic mappings into hyperbolically imbedded complex spaces and locally symmetric spaces. **89j:32031**

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— The error term in Nevanlinna theory. **89g:32037**
Sheremet′ev, V. E. Grassmann capacity and a theorem of Sokhotskiĭ for higher codimensions. (Russian) **89f:32048**
Siu, Yum Tong Defect relations for holomorphic maps between spaces of different dimensions. **89a:32030**
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Witten, Edward Holomorphic curves on manifolds of SU(3) holonomy. (*see* **89m:81001**)

32H35 Proper mappings, finiteness theorems

Bell, Steven R. A generalization of Cartan's theorem to proper holomorphic mappings. **89d:32056**

Cima, Joseph A. (*with* Suffridge, Ted) Proper mappings between balls in $\mathbf{C}^n$. **89h:32051**

— (*with* Suffridge, Ted) Proper holomorphic mappings from the two-ball to the three-ball. **89h:32050**

D'Angelo, John P. Polynomial proper maps between balls. **89j:32032**

— Proper holomorphic maps between balls of different dimensions. **89g:32038**

Diederich, K. (*with* Fornæss, John Erik) Applications holomorphes propres entre domaines à bord analytique réel. (English summary) [Proper holomorphic mappings between real-analytic domains] **89i:32052**

— (*with* Fornæss, John Erik) Proper holomorphic mappings between real-analytic pseudoconvex domains in $\mathbf{C}^n$. **89m:32045**

Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Proper holomorphic mappings between Reinhardt domains and pseudoellipsoids. **89k:32053**

Fornæss, John Erik *see* **Diederich, K., 89i:32052** *and* **89m:32045**

Forstnerič, Franc (*with* Rosay, Jean-Pierre) Localization of the Kobayashi metric and the boundary continuity of proper holomorphic mappings. **89c:32070**

— Extending proper holomorphic mappings of positive codimension. **89j:32033**

Globevnik, Josip Homogeneous polynomials on the ball of $\mathbf{C}^2$. **89e:32037**

Hahn, K. T. (*with* Pflug, Peter) On a minimal complex norm that extends the real Euclidean norm. **89a:32031**

Khudaiberganov, G. The Carathéodory-Fejér problem in $\mathbf{C}^n$. (Russian) **89a:32032**

Królikowski, Wiesław Seminorms and topologies on relative homology groups. **89f:32049**

Lin, En Bing (*with* Wong, Bun) A note on pseudoconvexity and proper holomorphic mappings. **89b:32034**

Maingot, Stéphane Multitype et applications holomorphes propres. (English summary) [Multitype and proper holomorphic mappings] **89d:32057**

Pflug, Peter *see* **Hahn, K. T., 89a:32031**

Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 89k:32053**

Rosay, Jean-Pierre (*with* Rudin, Walter) Holomorphic maps from $\mathbf{C}^n$ to $\mathbf{C}^n$. **89d:32058**

— *see also* **Forstnerič, Franc, 89c:32070**

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Watanabe, Chikara A note on a proper holomorphic mapping from an n-ball to a k-ball ($k > n$). **89d:32059**

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Bell, Steven R. (*with* Catlin, David W.) Regularity of CR mappings. **89i:32028**

Catlin, David W. *see* **Bell, Steven R., 89i:32028**

Faran, James J., V The nonimbeddability of real hypersurfaces in spheres. **89i:32037**

Globevnik, Josip (*with* Stout, Edgar Lee) Boundary regularity for holomorphic maps from the disc to the ball. **89c:32033**

Langmann, Klaus Endlichkeits- und Picard-Sätze für quasiprojektive Räume. [Finiteness theorems and Picard theorems for quasiprojective spaces] **89d:32055**

Shimizu, Satoru Automorphisms and equivalence of bounded Reinhardt domains not containing the origin. **89d:32003**

Stout, Edgar Lee *see* **Globevnik, Josip, 89c:32033**

Tumanov, A. E. Finite-dimensionality of the group of CR-automorphisms of a standard CR-manifold, and characteristic holomorphic mappings of Siegel domains. **89f:32061**

Varouchas, J. Kähler spaces and proper open morphisms. **89m:32021**

32H99 None of the above, but in this section

Abrosimov, A. V. Locally biholomorphic equivalence of smooth hypersurfaces in $\mathbf{C}^2$. **89g:32039**

Bell, Steven R. Weakly pseudoconvex domains with noncompact automorphism groups. **89h:32052**

Coupet, Bernard Construction de disques analytiques et applications. (English summary) [Construction of analytic discs and applications] **89a:32033**

Galusinski, G. Retractions régulières. [Regular retractions] **89f:32050**

Khasanov, S. V. Correspondence of boundaries under biholomorphic mappings in $\mathbf{C}^n$. **89m:32046**

Kimura, Tosihusa On Fatou-Bieberbach domains in $\mathbf{C}^2$. **89f:32051**

Lempert, László Holomorphic invariants, normal forms, and the moduli space of convex domains. **89i:32053**

Pflug, Peter (*with* Siciak, Józef) Remarks on boundary behaviour of functions holomorphic on Cartesian products. **89e:32038**

Siciak, Józef *see* **Pflug, Peter, 89e:32038**

Tsyganov, Sh. I. Biholomorphic mappings of the direct product of domains. (Russian) **89h:32053**

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Arazy, J. An application of infinite-dimensional holomorphy to the geometry of Banach spaces. **89g:46022**

de Bartolomeis, Paolo (*with* Derridj, Makhlouf) Positive vector bundles and harmonic maps. (Italian summary) **89j:58019**

Bell, Steven R. Local regularity of CR homeomorphisms. **89f:32026**

Choi, Yun Sung A generalization of Cartan's uniqueness theorem on locally convex spaces. **89k:46059**

D'Angelo, John P. The notion of formal essential finiteness for smooth real hypersurfaces. **89c:32054**

Derridj, Makhlouf *see* **de Bartolomeis, Paolo, 89j:58019**

Drużkowski, Ludwik M. Formulae for the inverse of a polynomial automorphism of $\mathbf{C}^2$. (Polish summary) **89m:13002**

Fiedler, Thomas Totally real embeddings of the torus into $\mathbf{C}^2$. **89f:57043**

Globevnik, Josip Discs in the ball containing given discrete sets. **89i:32019**

Grauert, Hans Meromorphe Äquivalenzrelationen: Anwendungen, Beispiele, Ergänzungen. [Meromorphic equivalence relations: applications, examples, complements] **89h:32009**

Greene, Robert E. (*with* Krantz, Steven G.) Biholomorphic self-maps of domains. **89i:32063**

Krantz, Steven G. *see* **Greene, Robert E., 89i:32063**

Kruzhilin, N. G. *see* **Vitushkin, A. G., 89k:32039**

Laurent-Thiébaut, Christine Extension de formes différentielles CR. (English summary) [Extension of CR differential forms] **89e:32039**

Patrizio, Giorgio Boundary value problems for the homogeneous complex Monge-Ampère equation. **89k:32035**

Ryan, Raymond A. Weakly compact holomorphic mappings on Banach spaces. **89a:46103**

Suzuki, Masakazu Comportement des applications holomorphes autour d'un ensemble polaire. II. (English summary) [Behavior of holomorphic mappings around a polar set. II] **89f:32027**

Udagawa, Seiichi Pluriharmonic maps and minimal immersions of Kähler manifolds. **89e:53092**

— Holomorphicity of certain stable harmonic maps and minimal immersions. **89m:58052**

Umehara, Masaaki Diastases and real analytic functions on complex manifolds. **89m:32019**

Vaisman, Izu Complex 2-dimensional Hermitian manifolds. **89b:53105**

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32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx.}

32J05 Compactification

Furushima, Mikio Complex analytic compactifications of $\mathbf{C}^3$. **89f:32052**

Kirwan, F. C. (*with* Lee, Ronnie; Weintraub, Steven H.) Quotients of the complex ball by discrete groups. **89j:32034**

Lee, Ronnie (*with* Weintraub, Steven H.) Topology of the Siegel spaces of degree two and their compactifications. **89c:32071**

— (*with* Weintraub, Steven H.) Moduli spaces of Riemann surfaces of genus two with level structures. I. **89i:32054**

— *see also* **Kirwan, F. C.; et al., 89j:32034**

Nadel, Alan (*with* Tsuji, Hajime) Compactification of complete Kähler manifolds of negative Ricci curvature. **89m:32047**

Peternell, Thomas (*with* Schneider, Michael Hellmut) Compactifications of $\mathbf{C}^3$. I. **89g:32040**

Ross, Graham G. Discrete symmetries and the complex structure of Calabi-Yau manifolds. **89c:32072**

Schneider, Michael Hellmut *see* **Peternell, Thomas, 89g:32040**

Shastri, A. R. Compact structures on $C^* \times C^*$. **89f:32053**

Tsuchihashi, Hiroyasu Certain compact complex manifolds with infinite cyclic fundamental groups. **89d:32060**

Tsuji, Hajime *see* **Nadel, Alan, 89m:32047**

Vo Van Tan On the compactification of strongly pseudoconvex surfaces. III. **89g:32041**

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Bántay, P. Orbifold compactification of heterotic string theories. **89h:81164**

Cecotti, S. (*with* Ferrara, S.; Girardello, L.) A topological formula for the Kähler potential of 4D $N = 1, 2$ strings, and its implications for the moduli problem. **89m:53131**

Distler, Jacques (*with* Greene, Brian R.) Aspects of $(2, 0)$ string compactifications. **89m:81135**

Duncan, M. J. (*with* Segrè, G.) A simplified model for superstring compactification. **89a:81125**

El-Jaouhari, Noureddine Compactification des espaces symétriques associés aux groupes de déplacements de Cartan. (English summary) [Compactification of symmetric spaces connected with a Cartan motion group] **89i:32070**

Ferrara, S. *see* **Cecotti, S.; et al., 89m:53131**

Girardello, L. *see* **Cecotti, S.; et al., 89m:53131**

Greene, Brian R. *see* **Distler, Jacques, 89m:81135**

Hashimoto, Naoki Deformations of some algebraic surfaces with $q = 0$ and $p_g = 1$. **89f:14035**

Knöller, F. W. Die Fundamentalgruppen der Siegelschen Modulvarietäten. (English summary) [The fundamental groups of Siegel modular varieties] **89b:32043**

Kondō, Shigeyuki On the Albanese variety of the moduli space of polarized $K3$ surfaces. **89d:32052**

Markushevich, D. G. (*with* Ol'shanetskiĭ, M. A.; Perelomov, A. M.) Description of a class of superstring compactifications related to semisimple Lie algebras. **89a:83061**

Mohapatra, Pramoda K. Comments on possible new three-generation Calabi-Yau manifolds. **89m:83088**

Ol'shanetskiĭ, M. A. *see* **Markushevich, D. G.; et al., 89a:83061**

Perelomov, A. M. *see* **Markushevich, D. G.; et al., 89a:83061**

Saper, Leslie (*with* Stern, Mark) L_2-cohomology of arithmetic varieties. **89g:32052**

Segrè, G. *see* **Duncan, M. J., 89a:81125**

Stern, Mark *see* **Saper, Leslie, 89g:32052**

Tsuji, Hajime Complete negatively pinched Kähler surfaces of finite volume. **89k:53062**

Zucker, Steven M. L_2-cohomology and intersection homology of locally symmetric varieties. II. **89i:32073**

32J10 Algebraic dependence theorems

Items with secondary classifications in 32J10

Reich, L. (*with* Schwaiger, J.) On polynomials in additive and multiplicative functions. **89g:12001**
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32J15 Compact surfaces

Adimoolam, C. Calabi-Yau manifolds. **89f:32054**
Bănică, C. (*with* Le Potier, J.) Sur l'existence des fibrés vectoriels holomorphes sur les surfaces non-algébriques. [On the existence of holomorphic vector bundles on nonalgebraic surfaces] **89h:32054**
Brînzănescu, Vasile (*with* Flondor, Paul) Quadratic intersection form and 2-vector bundles on nonalgebraic surfaces. **89d:32061**
Dloussky, G. Sur la classification des germes d'applications holomorphes contractantes. [The classification of germs of contracting holomorphic mappings] **89g:32042**
— Une construction élémentaire des surfaces d'Inoue-Hirzebruch. [An elementary construction of Inoue-Hirzebruch surfaces] **89g:32043**
Flondor, Paul *see* **Brînzănescu, Vasile, 89d:32061**
Kato, Masahide Erratum to: "Topology of Hopf surfaces" [J. Math. Soc. Japan 27 (1975), 222–238; MR 53 #5949]. **89i:32055**
Kobayashi, Ryoichi (*with* Naruki, Isao) Holomorphic conformal structures and uniformization of complex surfaces. **89j:32035**
Le Potier, J. *see* **Bănică, C., 89h:32054**
Mostow, G. D. (*with* Yau, Stephen S.-T.) Some surfaces covered by the ball and a problem in finite groups. **89d:32062**
Naruki, Isao *see* **Kobayashi, Ryoichi, 89j:32035**
Nishiguchi, Kenji Degeneration of $K3$ surfaces. **89j:32036**
Spurr, Michael J. On the zero set of a holomorphic one-form on a compact complex manifold. **89i:32056**
Ueno, Kenji Compact rigid analytic spaces with special regard to surfaces. **89f:32055**
Yau, Stephen S.-T. *see* **Mostow, G. D., 89d:32062**

Items with secondary classifications in 32J15

Aubin, Thierry Métrique d'Einstein-Kähler. [Kähler-Einstein metrics] **89e:53073**
Bouyakoub, Abdelkader Sur les fibrés principaux de dimension 4, en tores, munis de structures symplectiques invariantes et leurs structures complexes. (English summary) [On 4-dimensional principal torus bundles having invariant symplectic structures, and their complex structures] **89f:53054**
Boyer, Charles P. Self-dual and anti-self-dual Hermitian metrics on compact complex surfaces. **89h:53127**
Candelas, P. (*with* Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds. **89g:53102**
Catanese, F. Moduli of algebraic surfaces. **89i:14031**
Donaldson, Simon The geometry of 4-manifolds. **89d:57002**
Fahlaoui, Rachid Stabilité du fibré tangent des surfaces de del Pezzo. [Stability of the tangent bundle of del Pezzo surfaces] **89k:14063**
Flaherty, F. J. Instantons on the quaternionic Siegel space. **89f:53047**
Friedman, Robert David (*with* Morgan, John W.) Algebraic surfaces and 4-manifolds: some conjectures and speculations. **89g:57046**
— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. I. **89d:57046**
— (*with* Morgan, John W.) On the diffeomorphism types of certain algebraic surfaces. II. **89d:57047**
Green, Paul S. (*with* Hübsch, Tristan) Calabi-Yau hypersurfaces in products of semi-ample surfaces. **89c:14065**
Horikawa, Eiji Local deformation of pencil of curves of genus two. **89m:32034**
Hübsch, Tristan *see* **Green, Paul S., 89c:14065**
Lübke, Martin (*with* Okonek, Christian) Differentiable structures of elliptic surfaces with cyclic fundamental group. **89d:57048**
Lütken, C. A. *see* **Candelas, P.; et al., 89g:53102**
Mason, Geoffrey Symplectic automorphisms of $K3$-surfaces (after S. Mukai and V. V. Nikulin). **89g:32044**
Morgan, John W. *see* **Friedman, Robert David, 89d:57046; 89d:57047** *and* **89g:57046**
(Mukai, Shigeru) *see* **Mason, Geoffrey, 89g:32044**
Nakayama, Noboru The lower semicontinuity of the plurigenera of complex varieties. **89h:14028**
(Nikulin, V. V.) *see* **Mason, Geoffrey, 89g:32044**
Oka, Mutsuo[1] Examples of algebraic surfaces with $q = 0$ and $p_g \leq 1$ which are locally hypersurfaces. **89c:14053**
Okonek, Christian *see* **Lübke, Martin, 89d:57048**
Peters, C. A. M. Some remarks about I. Reider's article: "On the infinitesimal Torelli theorem for certain irregular surfaces of general type" [Math. Ann. 280 (1988), no. 2, 285–302; MR 89c:14060]. **89m:14022**
Reider, Igor On the infinitesimal Torelli theorem for certain irregular surfaces of general type. **89c:14060**
— *see also* **Peters, C. A. M., 89m:14022**
Saito, Masa-Hiko (*with* Shimizu, Yuji; Usui, Sampei) Variation of mixed Hodge structure and the Torelli problem. **89j:32037**
Sakai, Fumio Classification of normal surfaces. **89d:14053**
Sakane, Yusuke Compact Einstein manifolds—positive Ricci curvature in the Kähler-Einstein case. (Japanese) **89m:53079**
Schimmrigk, Rolf *see* **Candelas, P.; et al., 89g:53102**
Shastri, A. R. Compact structures on $C^* \times C^*$. **89f:32053**
Shimizu, Yuji *see* **Saito, Masa-Hiko; et al., 89j:32037**
Stiller, Peter F. On the classification of elliptic surfaces with $q = 1$. **89c:14057**
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32J20 Algebraicity criteria

Nakamura, Iku Moishezon threefolds homeomorphic to $\mathbf{P}^3$. **89b:32035**

Items with secondary classifications in 32J20

Sugiyama, Kenichi A geometry of Kähler cones. **89m:32049**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Carlson, James A. The geometry of the extension class of a mixed Hodge structure. **89b:32036**
Kasparian, Azniv Calabi-Yau manifolds of some special forms. **89f:32056**
Mason, Geoffrey Symplectic automorphisms of $K3$-surfaces (after S. Mukai and V. V. Nikulin). **89g:32044**
(Mukai, Shigeru) *see* **Mason, Geoffrey, 89g:32044**
Nakayama, Noboru The singularity of the canonical model of compact Kähler manifolds. **89g:32045**
(Nikulin, V. V.) *see* **Mason, Geoffrey, 89g:32044**
Pulte, Michael J. The fundamental group of a Riemann surface: mixed Hodge structures and algebraic cycles. **89m:32048**
Saito, Masa-Hiko (*with* Shimizu, Yuji; Usui, Sampei) Variation of mixed Hodge structure and the Torelli problem. **89j:32037**
Shimizu, Yuji *see* **Saito, Masa-Hiko; et al., 89j:32037**
Tsuji, Hajime A characterization of ball quotients with smooth boundary. **89k:32054**
Usui, Sampei *see* **Saito, Masa-Hiko; et al., 89j:32037**
Zucker, Steven M. Degeneration of mixed Hodge structures. **89c:32073**

Items with secondary classifications in 32J25

Arapura, Donu Hodge theory with local coefficients and fundamental groups of varieties. **89k:14034**
Ballico, Edoardo On globally generated vector bundles on surfaces with $c_2 = 1$. **89j:14008**
Bismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Torsion analytique et fibrés déterminants holomorphes. (English summary) [Analytic torsion and holomorphic determinant bundles] **89b:58201**
Candelas, P. (*with* Dale, A. M.; Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. **89e:14040**
Dale, A. M. *see* **Candelas, P.; et al., 89e:14040**
Durfee, Alan H. (*with* Hain, Richard M.) Mixed Hodge structures on the homotopy of links. **89c:14012**
El Zein, Fouad Théorie de Hodge à coefficients: étude locale. (English summary) [Hodge theory with coefficients: a local study] **89j:14006**
Esnault, Hélène (*with* Viehweg, Eckart) Deligne-Beĭlinson cohomology. **89k:14008**
Flenner, Hubert Extendability of differential forms on nonisolated singularities. **89j:14001**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Goldman, William M. (*with* Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. **89f:53100**
Hain, Richard M. Higher Albanese manifolds. **89a:14060**
— *see also* **Durfee, Alan H., 89c:14012**
Hamm, Helmut A. Invariants of weighted homogeneous singularities. **89j:32015**
Kollár, János Vanishing theorems for cohomology groups. **89j:32039**
Kondō, Shigeyuki On the Albanese variety of the moduli space of polarized $K3$ surfaces. **89d:32052**
Lütken, C. A. *see* **Candelas, P.; et al., 89e:14040**
Mabuchi, Toshiki Einstein-Kähler forms, Futaki invariants and convex geometry on toric Fano varieties. **89e:53074**
Millson, John J. *see* **Goldman, William M., 89f:53100**
Mukai, Shigeru Moduli of vector bundles on $K3$ surfaces and symplectic manifolds. (Japanese) **89h:32057**
Peternell, Thomas On the rigidity problem for the complex projective space. **89f:32036**
Rusjan, Edmond (*with* Senjanović, Goran) A superstring model of four generations. **89k:14087**
Schimmrigk, Rolf *see* **Candelas, P.; et al., 89e:14040**
Senjanović, Goran *see* **Rusjan, Edmond, 89k:14087**
Shimizu, Yuji Mixed Hodge structures on cohomologies with coefficients in a polarized variation of Hodge structure. **89k:14007**
Soulé, C. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Steenbrink, J. Mixed Hodge structures and singularities: a survey. **89c:14004**
Tsuji, Hajime An inequality of Chern numbers of Bogomolov type for minimal varieties. **89k:14023**
Viehweg, Eckart Vanishing theorems and positivity in algebraic fibre spaces. **89i:14030**
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Yau, S.-T. *see* **Yüan, Hsi Shih, 89c:53031**
Yüan, Hsi Shih (*with* Yau, S.-T.) On Ricci flat 3-fold. **89c:53031**

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Bando, Shigetoshi (*with* Kobayashi, Ryoichi) Ricci-flat Kähler metrics on affine algebraic manifolds. **89k:32055**
Campana, F. Algébricité de l'espace des feuilletages d'un espace analytique compact. [Algebraicity of the space of foliations of a compact analytic set] **89h:32055**
Chinak, M. A. Complex manifolds of negative curvature. **89h:32056**
Horst, Camilla Compact varieties of surjective holomorphic mappings. **89d:32063**
Kobayashi, Ryoichi *see* **Bando, Shigetoshi, 89k:32055**
Ohsawa, Takeo Hodge spectral sequence and symmetry on compact Kähler spaces. **89b:32037**

Varouchas, J. Sur l'image d'une variété kählérienne compacte. [On the image of a compact Kählerian manifold] **89d:32064**

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Aspinwall, P. S. (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Searching for three-generation Calabi-Yau manifolds. **89e:53071**
Bando, Shigetoshi (*with* Mabuchi, Toshiki) Uniqueness of Einstein Kähler metrics modulo connected group actions. **89c:53029**
Barlet, D. À propos d'une conjecture de R. Hartshorne. [On a conjecture of R. Hartshorne] **89a:32036**
Berger, M. S. (*with* Cherrier, P.) A new variational method for finding Einstein metrics on compact Kähler manifolds. I. **89e:53098**
Cherrier, P. *see* **Berger, M. S., 89e:53098**
Cordero, Luis A. (*with* Fernández, Marisa; de León, Manuel) Examples of compact complex manifolds with no Kähler structure. **89h:53082**
Cvetič, Mirjam Exact construction of (0, 2) Calabi-Yau manifolds. **89a:53052**
Fernández, Marisa *see* **Cordero, Luis A.; et al., 89h:53082**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) On the hard Lefschetz theorem in intersection homology for complex varieties with isolated singularities. **89c:14026**
Greene, Brian R. *see* **Aspinwall, P. S.; et al., 89e:53071**
Gurjar, R. V. (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. I. **89k:14035**
Haas, Andrew Howard (*with* Susskind, Perry) The geometry of the hyperelliptic involution in genus two. **89e:30078**
Kato, Masahide Erratum: "Compact differentiable 4-folds with quaternionic structures" [Math. Ann. **248** (1980), no. 1, 79–96; MR 81h:53037]. **89m:53054**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:14026**
Kirklin, Kelley H. *see* **Aspinwall, P. S.; et al., 89e:53071**
Kosarew, Siegmund Ein allgemeines Kriterium für das formale Prinzip. [A general criterion for the formal principle] **89m:32022**
Lawson, H. Blaine, Jr. (*with* Yau, Stephen S.-T.) Holomorphic symmetries. **89c:32046**
de León, Manuel *see* **Cordero, Luis A.; et al., 89h:53082**
Mabuchi, Toshiki *see* **Bando, Shigetoshi, 89c:53029**
Matsumoto, Keiji (*with* Sasaki, Takeshi; Yoshida, Masaaki) The period map of a 4-parameter family of $K3$ surfaces and the Aomoto-Gel'fand hypergeometric function of type $(3, 6)$. **89m:32041**
Mazur, Paweł O. Cobordisms and semiclassical instability of toroidal compactifications. **89b:83082**
Miron, Paul *see* **Aspinwall, P. S.; et al., 89e:53071**
Mori, Hiroshi (*with* Watanabe, Yoshiyuki) A Kähler deformation of CP^n. **89f:53101**
Robinson, David C. Half-flat solutions of Einstein's equation and hyper-Kähler structures. (*see* **89m:83003**)
Rusjan, Edmond (*with* Senjanović, Goran) Honest symmetries and complex structures of the three-generation superstring model. **89i:53057**
Sasaki, Takeshi *see* **Matsumoto, Keiji; et al., 89m:32041**
Schimmrigk, Rolf A new construction of a three-generation Calabi-Yau manifold. **89e:53072**
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Shastri, A. R. *see* **Gurjar, R. V., 89k:14035**
Siu, Yum Tong The existence of Kähler-Einstein metrics on manifolds with positive anticanonical line bundle and a suitable finite symmetry group. **89e:58032**
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Watanabe, Yoshiyuki *see* **Mori, Hiroshi, 89f:53101**
Wong, Pit-Mann Complex Monge-Ampère equation and related problems. **89c:32022**
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32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

Items with secondary classifications in 32K05

Bingener, Jürgen Analytic moduli spaces as orbit spaces. **89c:32059**

• 32K10 Non-Archimedean analytic spaces

Lipshitz, L. Isolated points on fibers of affinoid varieties. **89f:32057**
Ullrich, P. Rigid analytic covering maps. **89c:32074**

Items with secondary classifications in 32K10

Baldassarri, F. Comparaison entre la cohomologie algébrique et la cohomologie p-adique rigide à coefficients dans un module différentiel. II. Cas des singularités régulières à plusieurs variables. [Comparison between algebraic cohomology and rigid p-adic cohomology with coefficients in a differential module. II. The case of regular multivariate singularities] **89h:14018**
van der Put, Marius (*with* Reversat, M.) Fibrés vectoriels homogènes sur les variétés abéliennes qui sont des tores analytiques (rigides). (English summary) [Homogeneous vector bundles over abelian varieties that are (rigid) analytic tori] **89a:14058**
Reversat, M. *see* **van der Put, Marius, 89a:14058**
Ueno, Kenji Compact rigid analytic spaces with special regard to surfaces. **89f:32055**

32K99 None of the above, but in this section

Jurchescu, M. Coherent sheaves on mixed manifolds. **89j:32038**

Items with secondary classifications in 32K99

Aron, Richard M. (*with* Globevnik, Josip) Interpolation by analytic functions on c_0. **89j:46047**
Globevnik, Josip *see* **Aron, Richard M., 89j:46047**

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

Bhosle, Usha N. Moduli of parabolic G-bundles. **89i:32057**
Lescure, François Résultats de type Hartogs. [Results of Hartogs type] **89f:32058**
Li, Jun (*with* Yau, S.-T.) Hermitian-Yang-Mills connection on non-Kähler manifolds. (*se* **89m:81001**)
Nadel, Alan Singularities and Kodaira dimension of the moduli space of flat Hermitian-Yang-Mills connections. **89k:32056**
Yau, S.-T. *see* **Li, Jun, (89m:81001)**

Items with secondary classifications in 32L05

Abe, Yukitaka Holomorphic sections of line bundles over (H, C)-groups. **89g:32047**
Ballico, Edoardo On globally generated vector bundles on surfaces with $c_2 = 1$. **89j:14008**
Bănică, C. (*with* Le Potier, J.) Sur l'existence des fibrés vectoriels holomorphes sur les surfaces non-algébriques. [On the existence of holomorphic vector bundles on nonalgebraic surfaces] **89h:32054**
de Bartolomeis, Paolo *see* **Burns, Daniel M., Jr., 89d:53114**
Belavin, A. A. (*with* Knizhnik, V. G.; Morozov, A. Yu.; Perelomov, A. M.) Two- and three-loop amplitudes in bosonic string theory. **89h:81165**
Bismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Torsion analytique et fibrés déterminants holomorphes. (English summary) [Analytic torsion and holomorphic determinant bundles] **89b:58201**
Bowick, M. J. (*with* Rajeev, S. G.) The complex geometry of string theory and loop space. **89h:81074**
Brînzănescu, Vasile (*with* Flondor, Paul) Quadratic intersection form and 2-vector bundles on nonalgebraic surfaces. **89d:32061**
Buchdahl, N. P. Hermitian-Einstein connections and stable vector bundles over compact complex surfaces. **89d:53092**
Burns, Daniel M., Jr. (*with* de Bartolomeis, Paolo) Stability of vector bundles and extrema metrics. **89d:53114**
Corlette, Kevin Gauge theory and representations of Kähler groups. **89k:32040**
Decker, W. (*with* Schreyer, F.-O.) Pullbacks of the Horrocks-Mumford bundle. **89b:14017**
Flondor, Paul *see* **Brînzănescu, Vasile, 89d:32061**
Furuta, Mikio Euler number of moduli spaces of instantons. **89b:58041**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Itoh, Mitsuhiro Gauge fields and quaternion structure. **89m:53076**
Ivanov, N. V. Projective structures, flat bundles and Kähler metrics on moduli spaces. **89b:32026**
Janz, Raimund Holomorphic families of subspaces of a Banach space. **89h:46102**
Knizhnik, V. G. *see* **Belavin, A. A.; et al., 89h:81165**
Kobayashi, Ryoichi (*with* Naruki, Isao) Holomorphic conformal structures and uniformization of complex surfaces. **89j:32035**
Kobayashi, Shoshichi ★ Differential geometry of complex vector bundles. **89e:53100**
Le Potier, J. *see* **Bănică, C., 89h:32054**
Morozov, A. Yu. Explicit formulas for the one-, two-, three-, and four-loop string amplitudes in the critical dimension. **89h:81166**
— *see also* **Belavin, A. A.; et al., 89h:81165**
Naruki, Isao *see* **Kobayashi, Ryoichi, 89j:32035**
Perelomov, A. M. *see* **Belavin, A. A.; et al., 89h:81165**
Rajeev, S. G. *see* **Bowick, M. J., 89h:81074**
Schreyer, F.-O. *see* **Decker, W., 89b:14017**
Soulé, C. *see* **Bismut, Jean-Michel; et al., 89b:58201**
Vaisman, Izu Holomorphic structures and connections on differentiable fibre bundles. **89j:58127**

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 18F20, 55N30]

Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
Esnault, Hélène (*with* Viehweg, Eckart) A remark on a nonvanishing theorem of P. Deligne and G. D. Mostow. **89c:32075**
Green, Mark (*with* Lazarsfeld, Robert) A deformation theory for cohomology of analytic vector bundles on Kähler manifolds, with applications. (*see* **89m:81001**)
Laurent-Thiébaut, Christine Extension de formes différentielles CR. (English summary) [Extension of CR differential forms] **89e:32039**
Lazarsfeld, Robert *see* **Green, Mark, (89m:81001)**
Levi, Roni N. The Riemann-Roch theorem for complex spaces. **89d:32065**
Mukai, Shigeru Moduli of vector bundles on $K3$ surfaces and symplectic manifolds. (Japanese) **89h:32057**
Simpson, Carlos T. Yang-Mills theory and uniformization. **89a:32034**
Snow, Dennis M. Vanishing theorems on compact Hermitian symmetric spaces. **89g:32046**
Spera, Mauro Quantization on abelian varieties. **89i:32058**
Sugiyama, Kenichi Lower bounds of the essential spectrum of the Laplace-Beltrami operator and its application to complex geometry. **89k:32057**
— A geometry of Kähler cones. **89m:32049**
Viehweg, Eckart *see* **Esnault, Hélène, 89c:32075**

Items with secondary classifications in 32L10

Atiyah, Michael (*with* Hitchin, Nigel) ★ The geometry and dynamics of magnetic monopoles. **89k:53067**

andelloni, Giuseppe Nonpolynomial Yang-Mills local cohomology. **89h:81099**

ismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. I. Bott-Chern forms and analytic torsion. **89g:58192a**

— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. II. Direct images and Bott-Chern forms. **89g:58192b**

— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. III. Quillen metrics on holomorphic determinants. **89g:58192c**

ost, J.-B. Conformal and holomorphic anomalies on Riemann surfaces and determinant line bundles. **89h:58178**

emailly, Jean-Pierre Vanishing theorems for tensor powers of an ample vector bundle. **89d:32066**

'Hoker, Eric (*with* Phong, D. H.) Geometry of quantum strings. (*see* **89m:81001**)

Donaldson, Simon) *see* **Margerin, Christophe, 89e:58034**

l Kacimi-Alaoui, A. (*with* Tihami, A.) Errata to: "Bigraded cohomology of certain foliations" [Bull. Soc. Math. Belg. Sér. B **38** (1986), no. 2, 144–156; MR 88c:57029]. (French) **89a:57036**

illet, H. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**

attori, Akio Topology of the moduli space of SU(2)-instantons with instanton number 2. **89m:53134**

enneaux, M. (*with* Teitelboim, Claudio) BRST cohomology in classical mechanics. **89h:17022**

irschowitz, André Problèmes de Brill-Noether en rang supérieur. (English summary) [Brill-Noether problems for higher-rank vector bundles] **89i:14010**

itchin, Nigel ★ Monopoles, minimal surfaces and algebraic curves. **89h:58043**

— The self-duality equations on a Riemann surface. **89a:32021**

— (*with* Murray, M. K.) Spectral curves and the ADHM method. **89f:53105**

— *see also* **Atiyah, Michael, 89k:53067**

ulek, K. Geometry of the Horrocks-Mumford bundle. **89a:14017**

obayashi, Shoshichi ★ Differential geometry of complex vector bundles. **89e:53100**

ee, Ronnie (*with* Miller, Edward Y.; Weintraub, Steven H.) Rochlin invariants, theta functions and the holonomy of some determinant line bundles. **89m:57022**

argerin, Christophe Fibrés stables et métriques d'Hermite-Einstein (d'après S. K. Donaldson-K. K. Uhlenbeck- S. T. Yau). [Stable bundles and Hermite-Einstein metrics after S. K. Donaldson, K. K. Uhlenbeck, S. T. Yau] **89e:58034**

iller, Edward Y. *see* **Lee, Ronnie; et al., 89m:57022**

ori, Keiichi Geometric quantization and Zuckerman module. **89k:22030**

ukai, Shigeru Fourier functor and its application to the moduli of bundles on an abelian variety. **89k:14026**

urakami, Shingo Vanishing theorems on cohomology associated to Hermitian symmetric spaces. (French summary) **89j:32043**

urray, M. K. *see* **Hitchin, Nigel, 89f:53105**

oguchi, Mitsunori Yang-Mills-Higgs theory on a compact Riemann surface. **89f:58041**

hong, D. H. *see* **D'Hoker, Eric, (89m:81001)**

urohit, G. N. Vector bundles and induced representations of Lie groups. **89i:22022**

an der Put, Marius (*with* Reversat, M.) Fibrés vectoriels homogènes sur les variétés abéliennes qui sont des tores analytiques (rigides). (English summary) [Homogeneous vector bundles over abelian varieties that are (rigid) analytic tori] **89a:14058**

eina, C. Spinors on compact Riemann surfaces. **89m:58191**

eversat, M. *see* **van der Put, Marius, 89a:14058**

oslyĭ, A. A. Super Yang-Mills constraints as integrability conditions. **89m:58045**

ertöz, Sinan On Bott's vanishing theorem and applications to singular foliations. (Turkish summary) **89a:57031**

ilverberg, Alice Cohomology of fiber systems and Mordell-Weil groups of abelian varieties. **89c:11098**

now, Dennis M. Cohomology of twisted holomorphic forms on compact Hermitian symmetric spaces. **89b:32042**

oulé, C. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**

purr, Michael J. On the zero set of a holomorphic one-form on a compact complex manifold. **89i:32056**

eitelboim, Claudio *see* **Henneaux, M., 89h:17022**

ihami, A. *see* **El Kacimi-Alaoui, A., 89a:57036**

Uhlenbeck, Karen Keskulla) *see* **Margerin, Christophe, 89e:58034**

eintraub, Steven H. *see* **Lee, Ronnie; et al., 89m:57022**

Yau, S.-T.) *see* **Margerin, Christophe, 89e:58034**

2L15 Bundle convexity [see also 32F10]

ncona, Vincenzo (*with* Gaveau, Bernard) Annulation de la cohomologie pour des fibrés à courbure de signe variable sur une variété kählerienne. (English summary) [Vanishing of cohomology for bundles whose curvature has variable sign on a Kähler manifold] **89m:32050**

aveau, Bernard *see* **Ancona, Vincenzo, 89m:32050**

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e Bartolomeis, Paolo (*with* Derridj, Makhlouf) Positive vector bundles and harmonic maps. (Italian summary) **89j:58019**

ismut, Jean-Michel (*with* Vasserot, Éric) Comportement asymptotique de la torsion analytique associée aux puissances d'un fibré en droites positif. (English summary) [The asymptotic behavior of the analytic torsion associated with high powers of a positive line bundle] **89m:58188**

emailly, Jean-Pierre Théorèmes d'annulation pour la cohomologie des puissances tensorielles d'un fibré vectoriel positif. (English summary) [Vanishing theorems for cohomology groups of tensor powers of a positive vector bundle] **89c:32076**

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argerin, Christophe Fibrés stables et métriques d'Hermite-Einstein (d'après S. K. Donaldson-K. K. Uhlenbeck- S. T. Yau). [Stable bundles and Hermite-Einstein metrics after S. K. Donaldson, K. K. Uhlenbeck, S. T. Yau] **89e:58034**

iu, Yum Tong The existence of Kähler-Einstein metrics on manifolds with positive anticanonical line bundle and a suitable finite symmetry group. **89e:58032**

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Demailly, Jean-Pierre Théorèmes d'annulation pour la cohomologie des puissances tensorielles d'un fibré vectoriel positif. (English summary) [Vanishing theorems for cohomology groups of tensor powers of a positive vector bundle] **89c:32076**

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Arapura, Donu (*with* Jaffe, David B.) On Kodaira vanishing for singular varieties. **89h:14013**

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Williams, Floyd L. Unitary representations and a general vanishing theorem for $(0,r)$-cohomology. **89k:22027**

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— A formula for the local solution of the self-dual Yang-Mills equations. **89b:32039**

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Penrose, Roger On the origins of twistor theory. **89i:32060**

Semikhatov, A. M. Octonions and twistors in higher dimensions. (Russian) (*see* **89d:81001**)

Yasskin, Philip B. An ambitwistor approach for gravity. **89c:32077**

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Candelas, P. Yukawa couplings between (2, 1)-forms. (*see* **89m:81001**)

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Davidov, J. (*with* Mushkarov, Oleg K.) Existence of holomorphic functions on twistor spaces. **89k:53037**

Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Conformal invariance in harmonic superspace. **89m:81096**

Garland, H. (*with* Murray, M. K.) Kac-Moody monopoles and periodic instantons. **89m:53133**

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Gindikin, S. G. Differential geometry problems in integral geometry. **89h:22015**

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— (*with* Shaw, William T.) Real classical strings. **89i:53044**

— (*with* Shaw, William T.) Classical strings in ten dimensions. **89i:53045**

— (*with* Shaw, William T.) Constraint-free analysis of relativistic strings. **89i:53046**

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— Poon's self-dual metrics and Kähler geometry. **89j:53056**

— A rigidity theorem for quaternionic-Kähler manifolds. **89h:53105**

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Lukierski, J. Supersymmetric extension of twistor formalism. **89a:58009**

— (*with* Nowicki, Anatol) General superspaces from supertwistors. **89j:81084**

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— $N = 2$ local supertwistors. **89m:83095**

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Mushkarov, Oleg K. Structures presque hermitiennes sur des espaces twistoriels et leurs types. (English summary) [Almost Hermitian structures on twistor spaces and their types] **89h:53068**

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— (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**

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Duchamp, T. (*with* Kalka, Morris) Invariants of complex foliations and the Monge-Ampère equation. **89h:32020**

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Lee, Ronnie (*with* Miller, Edward Y.; Weintraub, Steven H.) Rochlin invariants, theta functions and the holonomy of some determinant line bundles. **89m:57022**

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Roslyĭ, A. A. (*with* Shvarts, A. S.; Voronov, A. A.) Geometry of superconformal manifolds. **89m:58015**

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32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

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Bedford, Eric (*with* Dadok, J.) Bounded domains with prescribed group of automorphisms. **89c:32078**

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— Triangular actions on $\mathbf{C}^3$. **89e:32043**

Tumanov, A. E. Finite-dimensionality of the group of CR-automorphisms of a standard CR-manifold, and characteristic holomorphic mappings of Siegel domains. **89f:32061**

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Birbrair, L. B. (*with* Sapronov, Yu. I.) Linear classification of quadratic mappings in the space $\mathbf{C}^3$. (Russian) **89h:58022**

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Kirwan, F. C. Intersection homology and torus actions. **89c:14072**

Kodama, Akio Characterizations of certain weakly pseudoconvex domains $E(k, \alpha)$ in $\mathbf{C}^n$. **89i:32038**

Kowalski, O. (*with* Vanhecke, Lieven) The Gel′fand theorem and its converse for Kähler manifolds. **89d:53096**

Kruzhilin, N. G. Holomorphic automorphisms of hyperbolic Reinhardt domains. **89d:32002**

Kuribayashi, Akikazu (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. (Japanese. English summary) **89g:30081a**

— (*with* Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of genus 5. II. (Japanese. English summary) **89g:30081b**

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Nomura, Takaaki Harmonic analysis on a nilpotent Lie group and representations of a solvable Lie group on $\overline{\partial}_b$ cohomology spaces. **89f:22014**

Nurowski, Paweł (*with* Tafel, Jacek) Symmetries of Cauchy-Riemann spaces. **89c:53027**

Petrie, Ted (*with* Randall, John D.) A topological view of algebraic actions on complex affine space. **89i:14041**

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An, You Shan A metric on the Heisenberg group H_n. (Chinese) (Not in MR)

Barlet, D. À propos d'une conjecture de R. Hartshorne. [On a conjecture of R. Hartshorne] **89a:32036**

Berger, C. A. (*with* Coburn, L. A.; Zhu, Ke He) Function theory on Cartan domains and the Berezin-Toeplitz symbol calculus. **89m:32053**

Berteloot, François Existence d'une structure kählérienne sur les variétés homogènes semi-simples. (English summary) [Existence of a Kähler metric on semisimple homogeneous manifolds] **89g:32048**

— (*with* Oeljeklaus, K.) Invariant plurisubharmonic functions and hypersurfaces on semisimple complex Lie groups. **89i:32065**

Brion, M. Classification des espaces homogènes sphériques. [Classification of spherical homogeneous spaces] **89d:32068**

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Dorfmeister, Josef (*with* Nakajima, Kazufumi) The fundamental conjecture for homogeneous Kähler manifolds. **89i:32066**

Epstein, D. B. A. Complex hyperbolic geometry. **89c:32082**

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Gel′fand, I. M. (*with* Graev, M. I.) General hypergeometric functions on the Grassmannian $G_{3,6}$. (Russian) **89c:32083**

— (*with* Graev, M. I.) Strata in $G_{3,6}$ and the hypergeometric functions connected with them. (Russian) **89c:32084**

— (*with* Serganova, V. V.) Combinatorial geometries and the strata of a torus on homogeneous compact manifolds. (Russian) **89g:32049**

Gilligan, Bruce On the Kobayashi pseudometric reduction of homogeneous spaces. **89e:32044**

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Gromov, N. A. Classical groups in Cayley-Klein spaces. (Russian) (*see* **89d:81002**)

Heinzner, Peter Linear äquivariante Einbettungen Steinscher Räume. [Linearly equivariant imbeddings of Stein spaces] **89k:32061**

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Kimura, Tatsuo (*with* Kasai, S.; Inuzuka, Masaaki; Yasukura, Osami) A classification of 2-simple prehomogeneous vector spaces of type I. **89f:32062**

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Oeljeklaus, K. (*with* Richthofer, Wolfgang) On the structure of complex solvmanifolds. **89e:32045**

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Onishchik, A. L. (*with* Serov, A. A.) Lie superalgebras of vector fields on splittable flag supermanifolds. **89i:32067**

Penney, Richard C. The Laplace Beltrami operator on unbounded homogeneous domains in $\mathbf{C}^2$. **89c:32085**

— The Laplace Beltrami operator on unbounded homogeneous domains in $\mathbf{C}^n$. **89g:32050**

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Snow, Dennis M. Affine homogeneous spaces. **89i:32068**

Snow, Joanne Erdman On the classification of solv-manifolds in dimension 2 and 3. **89j:32042**

Wehler, Joachim Hypersurfaces of the flag variety: deformation theory and the theorems of Kodaira-Spencer, Torelli, Lefschetz, M. Noether and Serre. **89g:32051**

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Azad, H. Homogeneous affine bundles. **89j:20048**

Babakhanian, Ari (*with* Hironaka, Heisuke) On the complex Grassmann manifold. **89m:14028**

Cowen, Michael J. Automorphisms of Grassmannians. **89k:14089**

De Concini, C. (*with* Lusztig, G.; Procesi, C.) Homology of the zero-set of a nilpotent vector field on a flag manifold. **89f:14052**

De Mari, Filippo (*with* Shayman, Mark A.) Generalized Eulerian numbers and the topology of the Hessenberg variety of a matrix. **89i:05009**

Fiedler, Thomas A characteristic class for totally real surfaces in the Grassmannian of two-planes in four-space. **89c:57029**

Greene, Robert E. (*with* Krantz, Steven G.) Biholomorphic self-maps of domains. **89i:32063**

Hasegawa, Keizo Minimal models of nilmanifolds. **89i:32015**

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Kapranov, M. M. On the derived categories of coherent sheaves on some homogeneous spaces. **89g:18018**

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Kazhdan, D. (*with* Lusztig, G.) Fixed point varieties on affine flag manifolds. **89m:14025**

Kimura, Tatsuo (*with* Kasai, S.; Taguchi, Masanobu; Inuzuka, Masaaki) Some P.V.-equivalences and a classification of 2-simple prehomogeneous vector spaces of type II. **89k:11101**

Kirwan, F. C. Rational intersection cohomology of quotient varieties. II. **89e:14010**

— (*with* Lee, Ronnie; Weintraub, Steven H.) Quotients of the complex ball by discrete groups. **89j:32034**

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Mitchell, S. A. Quillen's theorem on buildings and the loops on a symmetric space. **89m:22024**

Muro, Masakazu Singular invariant tempered distributions on regular prehomogeneous vector spaces. **89d:22010**

Nomura, Takaaki Harmonic analysis on a nilpotent Lie group and representations of a solvable Lie group on $\bar{\partial}_b$ cohomology spaces. **89f:22014**

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32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

Abate, Marco Orbit structure of noncompact Hermitian symmetric spaces. (Italian summary) **89i:32069**

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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

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32N10 Automorphic forms

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Schiffmann, Gérard *see* **Rubenthaler, Hubert, 89e:11030**
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33–XX Special functions {33–XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42C05. Expansions in orthogonal functions are treated in 42C10, 42C15.}

33–00 Handbooks, dictionaries, and other reference works

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(Hardy, Godfrey Harold) *see* **Ramanujan, Srinivasa, 89j:01078**
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Correspondence:
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33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

(Andrews, G. E.) *see* **Ramanujan, Srinivasa, 89j:01078**
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33A10 Exponential and trigonometric functions

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Shenton, L. R. (*with* Kemp, A. W.) An S-fraction and $\ln^2(1+x)$. **89k:65027**

33A15 Gamma and beta functions

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Ismail, Mourad E. H. (*with* Stanton, Dennis) On the Askey-Wilson and Rogers polynomials. **89m:33003**
Laforgia, Andrea (*with* Sismondi, Silvana) Monotonicity results and inequalities for the gamma and error functions. **89e:33001**
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33A20 Error function, probability integral

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Vuorinen, M. *see* **Anderson, G. D.; et al., 89f:30036**

33A25 Elliptic functions and integrals

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Petrov, G. S. Complex zeros of an elliptic integral. (Russian) **89i:33001**
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Walker, Peter L. On the Euler-Maclaurin summation formula for alternating series and a new proof of the functional equation for $\theta(x)$. **89i:33003**

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33A30 Simple hypergeometric functions of one and several variables

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Boĭchev, Georgi S. (*with* Rusev, Pet″r) Uniform convergence of Laguerre series on arcs of the boundaries of their domains of convergence. (Bulgarian. English and Russian summaries) **89h:33004**
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Nahta, S. L. On integrals involving the multivariable H-function. **89f:33004**

Nguen Tkhan′ Khaĭ Asymptotic representations of series F_1 and H_3 near the boundaries of domains of convergence. (Russian) (Not in MR)

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Pathan, M. A. (*with* Yasmeen) On generating functions of a general triple hypergeometric series. **89f:33005**

— (*with* Yasmeen) A note on a new generating relation for a generalized hypergeometric function. **89m:33005**

Praagman, C. Linear homogeneous relations for the hypergeometric function. I. Mixed difference-differential relations. **89a:33003**

Prasad, G. S. (*with* Choudhary, S. B.) Some relation between generalized $H^{\lambda}_{\nu,\alpha,\beta}(z)$ and hypergeometric functions. **89m:33006**

Prasad, Y. N. On a multivariable I-function. (Hindi. English summary) **89f:33006**

— (*with* Yadav, G. S.) Integration of certain products associated with the multivariable I-function. (Hindi. English summary) **89f:33007**

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(Rao, A. B.) *see* **Chandwani, G. N., 89h:33005**

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Shahabuddin, Md. Squares of ${}_2F_1(-n,\beta;\alpha+\beta;-y)$. **89c:33005**

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Sindri, B. I. T. *see* **Singh, Ramji; et al., 89j:33003**

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— (*with* Bhatt, R. C.) Some finite summation theorems and expansions of hypergeometric functions. **89i:33006**

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Singh, Surya Narain An expansion formula for basic hypergeometric function of two variables. **89d:33009**

Singh Chandel, R. C. (*with* Gupta, Anil) Use of the multivariable H-function of Srivastava and Panda in cooling of a heated cylinder. **89c:33006**

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Srivastava, Hari M. A note on a generalization of a q-series transformation of Ramanujan. **89a:33004**

— (*with* Owa, Shigeyoshi) Some applications of the generalized hypergeometric function involving certain subclasses of analytic functions. **89c:33007**

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— Sums of a certain family of series. **89g:33008**

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— Basic hypergeometric series and identities of Rogers-Ramanujan type. (*see* **89m:01070**)

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Becker, Ulrich (*with* Grün, Norbert; Scheid, Werner) Evaluation of Appell functions in relativistic Coulomb-Dirac form factors. **89a:81178**

Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) On certain continued fractions related to ${}_3\Phi_2$ basic hypergeometric functions. **89f:40002**

de Branges, Louis Underlying concepts in the proof of the Bieberbach conjecture. **89f:30029**

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Chihara, Laura (*with* Stanton, Dennis) Association schemes and quadratic transformation for orthogonal polynomials. **89f:05048**

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Dumont, Dominique (*with* Kreweras, Germain) Sur le développement d'une fraction continue liée à la série hypergéométrique et son interprétation en termes de records et anti-records dans les permutations. (English summary) [Expansion of a continued fraction associated with the hypergeometric series, and its interpretation in terms of records and antirecords in permutations] **89c:30007**

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Gel′fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Equations of hypergeometric type and Newton polyhedra. **89j:22015**

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Kalla, S. L. (*with* Al-Saqabi, Bader; Conde, Salvador) Some results related to radiation-fiel problems. **89d:78023**

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Owa, Shigeyoshi (*with* Srivastava, Hari M.) Univalent and starlike generalized hypergeometric functions. **89f:30021**

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Pronin, P. N. Univalence of hypergeometric operators. (Russian) (*see* **89f:00013**)

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Singhal, J. P. (*with* Kumari, Savita) On inverse series relations. **89e:33023**

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Voznyuk, A. V. On a general approach to obtaining asymptotic expansions of Bessel functions, Legendre polynomials, functions of a parabolic cylinder, and Hermite polynomials for large values of the argument. (Russian) **89h:33011**
Walker, Peter L. On the zeros of certain trigonometric integrals. **89h:30009**
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Anandani, P. (*with* Ronghe, Ashok Kumar) Integration of Fox's H-function with respect to a parameter. (Hindi. English summary) **89e:33006**
Arora, Arun Kumar (*with* Koul, C. L.) Applications of fractional calculus. **89i:33007**
Audich, Sunil Certain transformation formulas for the H-function of several variables. **89d:33010**
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Damjanović, Slobodan Lj. *see* **Srivastava, Hari M., 89k:33007**
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— On certain transformations of basic hypergeometric functions. **89e:33008**
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Gautman, G. P. (*with* Goyal, A. N.) On unification of generalised functions representable by Mellin-Barnes contour integrals. (Not in MR)
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Gupta, Kailash Chandra (*with* Agrawal, S. M.) Some unified theorems involving H-function transforms. **89m:33009**
Jain, R. M. Finite integrals involving general class of polynomials and the multi-variable $\underline{H}$-function. **89f:33008**
— Finite double integrals involving multivariable H-functions. **89c:33009**
Kiryakova, V. S. A new differential formula for Meijer's G-function. **89f:33009**
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Nasim, C. On generalized heat polynomials. **89f:33011**
Niukkanen, A. W. A new method in the theory of hypergeometric series and of special functions in mathematical physics. **89k:33006**
Prasad, Y. N. (*with* Yadav, G. S.) On some results involving the I-function of several complex variables. **89f:33012**
— (*with* Yadav, G. S.) Fourier series for the multivariable I-function. **89h:33007**
— (*with* Yadav, G. S.) An exponential Fourier series for the multivariable I-function. I. (Hindi. English summary) **89e:33009**
Ronghe, Ashok Kumar *see* **Anandani, P., 89e:33006**
Sándor, Iosif Remark on a function which generalizes the harmonic series. **89j:33005**
Sevaria, K. S. Some multiple integrals involving Meijer's G-function. (Not in MR)
Sharma, Chandra K. (*with* Chouksey, Surendra K.) A note on the generating functions for classical polynomials. **89b:33007**
— (*with* Shukla, Vijay S.) On the H-function of several complex variables. **89f:33013**
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— (*with* Damjanović, Slobodan Lj.) An elementary proof of a certain transformation for an n-balanced hypergeometric ${}_3\Phi_2$ series. **89k:33007**
— (*with* Shreshtha, R. M.) Some expansions in series of Bessel functions. **89i:33008**
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Wille, L. T. A novel class of G function integrals. **89b:33010**
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Beukers, F. (*with* Wolfart, Jürgen) Algebraic values of hypergeometric functions. **89m:11071**
Bragg, Louis R. Exponential sums and certain hypergeometric type initial value problems. **89k:34010**
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Davtyan, L. S. (*with* Pogosyan, G. S.; Sisakyan, A. N.; Ter-Antonyan, V. M.) Transformations connecting the parabolic bases of a two-dimensional hydrogen atom in the continuous spectrum. **89c:81210**
Debiard, Amédée Système différentiel hypergéométrique et parties radiales des opérateurs invariants des espaces symétriques de type BC_p. [A hypergeometric differential system and the radial parts of invariant operators of symmetric spaces of type BC_p] **89e:22027**
Denis, Remy Y. On certain expansions of basic hypergeometric function. **89d:33007**
Gasper, George Summation, transformation, and expansion formulas for bibasic series. **89g:33012**
Gel′fand, I. M. (*with* Graev, M. I.) General hypergeometric functions on the Grassmannian $G_{3,6}$. (Russian) **89c:32083**
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Graev, M. I. *see* **Gel′fand, I. M., 89c:32083** *and* **89c:32084**
Heckman, G. J. (*with* Opdam, E. M.) Root systems and hypergeometric functions. I. **89b:58192a**
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Lizarev, A. D. (*with* Kushunina, N. A.) Equations of hypergeometric type that are integrable in elementary functions. (Russian) **89g:34011**
Loiseau, Jean-Francis (*with* Codaccioni, Jean-Pierre; Caboz, Régis) Hyperelliptic integrals and multiple hypergeometric series. **89a:33002**
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Milne, S. C. Multiple q-series and U(n) generalizations of Ramanujan's ${}_1\Psi_1$ sum. **89f:05019**
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— (*with* Chachibaya, Ts. Sh.) Asymptotic representations of some classes of special functions that depend on two variables. **89i:33009**
— (*with* Chachibaya, Ts. Sh.) Expansions for Bessel exponential-integral functions and related functions. **89k:33008**
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33A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials

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33A50 Gegenbauer functions

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33A55 Lamé, Mathieu, spheroidal wave functions

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— (*with* Letessier, J.; Valent, G.) Linear birth and death models and associated Laguerre and Meixner polynomials. **89m:60204**
Jayne, John W. Recursively generated polynomials and Geronimus' version of orthogonality on a contour. **89f:30057**
Kobel'kov, G. M. *see* **Bakhvalov, N. S.; et al., 89b:65052**
Kozitskii, Yu. V. (*with* Mel'nik, N. O.) Eigenfunctions of differential operators of infinite order in a class of Laguerre entire functions. (Russian. English summary) **89g:34028**
Krall, A. M. (*with* Littlejohn, L. L.) Sturm-Liouville operators and orthogonal polynomials. **89a:34035**
— (*with* Littlejohn, L. L.) On the classification of differential equations having orthogonal polynomial solutions. II. **89e:34017**
— Singular solutions of Bessel's equation. **89g:33010**
Landry, Stephen G. *see* **Robertson, Lewis C.; et al., 89h:60019**
Leach, P. G. L. (*with* Flessas, George P.; Gorringe, V. M.) A Rodrigues formula approach to determining closed-form solutions to the Schrödinger equation for symmetric anharmonic oscillators. **89k:81025**
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Littlejohn, L. L. *see* **Krall, A. M., 89a:34035** *and* **89e:34017**
Lubinsky, D. S. A survey of general orthogonal polynomials for weights on finite and infinite intervals. **89h:42030**
Macdonald, I. G. Commuting differential operators and zonal spherical functions. **89e:43025**
Magnus, Alphonse P. *see* **Van Assche, Walter, 89i:42036**
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Marcellán, F. J. *see* **Ronveaux, A., 89k:65026**
Marr, Robert B. (*with* Vineyard, George H.) Five-diagonal Toeplitz determinants and their relation to Chebyshev polynomials. **89j:15011**
Masson, David R. Difference equations revisited. **89m:39005**
Máté, A. (*with* Nevai, P.; Totik, V.) Twisted difference operators and perturbed Chebyshev polynomials. **89f:39005**
— *see also* **Bauldry, William C.; et al., 89m:39002**
Mazhar, S. M. *see* **Gupta, D. P., 89k:33010**
Mel'nik, N. O. *see* **Kozitskii, Yu. V., 89g:34028**
Mhaskar, H. N. A quantitative Dirichlet-Jordan type theorem for orthogonal polynomial expansions. **89g:42045**
Murray, Margaret A. M. *see* **Coifman, Ronald R., 89j:42001**
Mustard, David Lie group imbeddings of the Fourier transform and a new family of uncertainty principles. **89i:42019**
Nahta, S. L. Generalized Gegenbauer transforms of some functions involving products of Jacobi polynomials and the multivariable H-function. **89d:44002**
Nevai, P. *see* **Máté, A.; et al., 89f:39005** *and* **Bauldry, William C.; et al., 89m:39002**
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Prasad, Y. N. (*with* Yadav, G. S.) Fourier series for the multivariable I-function. **89h:33007**
Riekstiņš, E. ★ Асимптотика и оценки нулей некоторых специальных функций. (Russian) [Asymptotic behavior of and estimates for the zeros of some special functions] **89h:33002**
Robertson, Lewis C. (*with* Shortt, Rae Michael; Landry, Stephen G.) Dice with fair sums. **89h:60019**
Ronveaux, A. (*with* Marcellán, F. J.) Co-recursive orthogonal polynomials and fourth-order differential equation. **89k:65026**
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Silverstein, Martin L. Orthogonal polynomial martingales on spheres. **89i:60097**
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Sommen, F. Special functions in Clifford analysis and axial symmetry. **89c:30115**
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— A unified theory of polynomial expansions and their applications involving Clebsch-Gordan type linearization relations and Neumann series. **89m:33007**
Stanton, Dennis *see* **Ismail, Mourad E. H., 89m:33003**
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Surgailis, D. *see* **Giraitis, L., 89c:60024**
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Valent, G. *see* **Ismail, Mourad E. H.; et al., 89m:60204**
Van Assche, Walter Eigenvalues of Toeplitz matrices associated with orthogonal polynomials. **89a:42036**
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— *see also* **Geronimo, J. S., 89f:42021** *and* **89j:15017**
Vineyard, George H. *see* **Marr, Robert B., 89j:15011**
Voznyuk, A. V. Asymptotic formulas for parabolic cylindrical functions and for Hermite polynomials for large values of the argument. (Russian) **89b:33012**
Walter, Gilbert G. (*with* Zayed, A. I.) The continuous (α, β)-Jacobi transform and its inverse when $\alpha + \beta + 1$ is a positive integer. **89g:44004**
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Wyneken, M. F. Norm asymptotics of orthogonal polynomials for general measures. **89c:42029**
Yadav, G. S. *see* **Prasad, Y. N., 89h:33007**
Yadav, Sarjoo Prasad Some sequence spaces involving Jacobi polynomials. **89h:46010**
Yoshino, Sayaka Analytic properties of the recursion method in the presence of band gaps. **89c:42030**
Zayed, A. I. *see* **Walter, Gilbert G., 89g:44004**
Zeilberger, Doron *see* **Foata, Dominique, 89m:05008**
Zhang, Ruiming *see* **Ismail, Mourad E. H., 89i:81150**

33A70 Other special functions

Andrews, G. E. Ramanujan's fifth order mock theta functions as constant terms. **89f:33023**
Campos, L. M. B. C. Erratum for the paper: "On extensions of the Laurent theorem in the functional calculus with applications to the generation of higher transcendental functions" [Mat. Vesnik **38** (1986), no. 4, 375–390; MR 88g:33014]. **89m:33024**
Gasper, George Summation, transformation, and expansion formulas for bibasic series. **89g:33012**
Jain, Vinod Kumar *see* **Verma, Arun, 89i:33022**
Khanna, I. K. (*with* Yadava, Krishna) A linear generating relation for $R_N^B\{(x_m), y\}$ and its applications. **89e:33024**
— (*with* Yadava, Krishna) On a polynomial set defined by a multiple hypergeometric series. **89e:33025**
— (*with* Yadava, Krishna) Characterization and asymptotic behaviour for the generalized polynomial. **89b:33017**
Laforgia, Andrea Asymptotic inequalities for the zeros of the functions $B_i(x)$, $A_i'(x)$, B_i'. (Italian. English and Turkish summaries) **89k:33015**
— (*with* Muldoon, Martin E.) Monotonicity properties of zeros of generalized Airy functions. (Italian summary) **89c:33019**
Miller, Allen R. An incomplete Lipschitz-Hankel integral of K_0. **89g:33013**
Mimachi, Katsuhisa A proof of Ramanujan's identity by use of loop integrals. **89i:33020**
Muldoon, Martin E. *see* **Laforgia, Andrea, 89c:33019**
Nikishov, A. I. (*with* Ritus, V. I.) Asymptotic representations for some functions and integrals connected with Airy function. **89h:33018**
— (*with* Ritus, V. I.) Asymptotic representations of some functions and integrals connected with the Airy function. (Russian) (*see* **89d:81002**)
Nikolaev, N. Ya. *see* **Volkodavov, V. F., 89g:33014**
Pradhan, K. M. Rodrigues' formulae for the generalized hypergeometric polynomials. **89m:33025**
Ritus, V. I. *see* **Nikishov, A. I., 89h:33018** *and* (**89d:81002**)
Singh, Rajendra Prasad Some integral representation of generalized Struve's function. **89i:33021**
Srivastava, Hari M. (*with* Todorov, P. G.) An explicit formula for the generalized Bernoulli polynomials. **89d:33021**
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Verma, Arun (*with* Jain, Vinod Kumar) Some quadratic transformations of basic hypergeometric series and identities in Ramanujan's "lost" notebook. **89i:33022**
Volkodavov, V. F. (*with* Nikolaev, N. Ya.) A special function of two arguments that arises in the solution of boundary value problems. (Russian) **89g:33014**
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Zagier, Don The remarkable dilogarithm. **89f:33024**

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Attia, M. T. *see* **Haggag, M. H.; et al., 89i:85002**
Bakhshetsyan, A. V. Means for centered systems of functions. (Russian) **89k:42023**
Beerends, R. J. Combinatorial identities on root systems and the Fourier transform of Harish-Chandra's c-function. **89c:17017**
Bobatto, G. E. *see* **Milone, A. A. E.; et al., 89h:65031**
Bondarenko, B. A. (*with* Karachik, V. V.) Analogues of the Euler formula for generalized-homogeneous polynomials and functions. (Russian) **89a:26022**
Boukhemis, A. (*with* Maroni, P.) Une caractérisation des polynômes strictement $1/p$ orthogonaux de type Scheffer. Étude du cas $p=2$. [A characterization of strictly $1/p$ orthogonal polynomials of Scheffer type. The case $p=2$] **89h:33013**
Cameron, David Euler and Maclaurin made easy. **89g:41021**
Chiccoli, C. (*with* Lorenzutta, S.; Maino, G.) On the evaluation of generalized exponential integrals $E_v(x)$. **89h:65030**
Delange, Hubert On the real roots of Euler polynomials. **89k:11009**
Dilcher, Karl Zeros of Bernoulli, generalized Bernoulli and Euler polynomials. **89h:30005**
— Polynomials related to expansions of certain rational functions in two variables. **89d:33015**
van Doorn, Erik A. *see* **Mehta, Madan Lal, 89g:90105**
Došlá, Z. Monotonicity properties of the linear combination of derivatives of some special functions. **89f:33014**
El-Labany, S. *see* **Haggag, M. H.; et al., 89i:85002**
Haggag, M. H. (*with* Machali, H. M.; El-Labany, S.; Attia, M. T.) Chandrasekhar's X- and Y-functions. **89i:85002**
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Kolomiets, V. G. (*with* Smereka, Ĭ. P.; Tsikaĭlo, T.-N. M.) On the integration of differential equations by means of periodic Ateb-functions. (Russian) **89a:34006**
Lorenzutta, S. *see* **Chiccoli, C.; et al., 89h:65030**
Lyudkovskiĭ, S. V. Compact relations between invariants of the unitary groups U(n) and power sums. **89f:81060**
Machali, H. M. *see* **Haggag, M. H.; et al., 89i:85002**
Maino, G. *see* **Chiccoli, C.; et al., 89h:65030**
Manocha, H. L. Harmonic analysis on the sphere S_2. **89b:22016**
Maroni, P. *see* **Boukhemis, A., 89h:33013**
Mehta, Madan Lal (*with* van Doorn, Erik A.) Inequalities for Charlier polynomials with application to teletraffic theory. **89g:90105**
Milone, A. A. E. (*with* Milone, L. A.; Bobatto, G. E.) Numerical evaluation of the line broadening function $H(a,v)$. **89h:65031**
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Moak, Daniel S. Completely monotonic functions of the form $s^{-b}(s^2+1)^{-a}$. **89e:33004**
Müller, Helmut A. On generalized zeta-functions at negative integers. **89h:11057**
Pandey, S. S. *see* **Trivedi, T. N., 89k:73015**
Pham Ngoc Dinh, A. Existence and uniqueness of solution of Bessel's nonlinear differential equation. **89k:65107**
Rai, B. K. *see* **Singh, Surya Narain, 89i:05030**
Schwerdtfeger, P. (*with* Silberbach, H.) Multicenter integrals over long-range operators using Cartesian Gaussian functions. **89b:81258**
Secrest, Don Kratzer oscillator functions as a diatomic molecule basis set. **89d:81130**
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Singh, Surya Narain (*with* Rai, B. K.) An Appell cross-sequence suggested by Bernoulli and Euler polynomials. **89i:05030**
Smereka, Ĭ. P. *see* **Kolomiets, V. G.; et al., 89a:34006**
Storozhev, V. I. Special functions of generalized complex variables in problems of the diffraction of elastic shear waves for anisotropic media. (Russian) **89j:73035**
Trivedi, T. N. (*with* Pandey, S. S.) The solution of some dual equations with an application to a problem of elasticity. **89k:73015**
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Vamanamurthy, M. K. *see* **Anderson, G. D.; et al., 89f:30036**
Verma, Arun Some special transformations of bibasic bilateral hypergeometric series. **89b:33009**
Vuorinen, M. *see* **Anderson, G. D.; et al., 89f:30036**

33A75 Special functions and Lie groups [see also 22Exx, 43A80]

Bacry, H. Zeros of polynomials and generalized Chebyshev polynomials. (*see* **89d:81002**)
Basu, Dipak Kumar A class of mixed trilateral generating relations for Jacobi polynomial from the viewpoint of Lie group. (Not in MR)
Chikhanov, Kh. A. Double hypergeometric series and matrix groups. (Russian) **89k:33016**
Chongdar, Asit Kumar Errata: "A Lie-algebra and generating functions of modified Laguerre polynomials" [Bull. Calcutta Math. Soc. 78 (1986), no. 4, 219–226; MR 88h:33033]. **89d:33022**
Gel'fand, I. M. (*with* Retakh, V. S.; Serganova, V. V.) Generalized Airey functions, Schubert cells and Jordan groups. **89b:33018**
Ghosh, Bandana Application of Jacobi's partial differential operators to partial differential equations. (Not in MR)
— Group theoretic origins of certain generating functions of Jacobi polynomials. II. **89i:33023**
— Some generating functions of modified Gegenbauer polynomials. **89c:33020**
Iwasaki, Katsunori Riemann function of harmonic equation and Appell's F_4. **89d:33023**
Koornwinder, T. H. A group theoretic interpretation of Wilson polynomials. **89h:33019**
Kushner, Howard B. The linearization of the product of two zonal polynomials. **89e:33026**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 89b:33018**
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Atakishiev, N. M. (*with* Suslov, S. K.) Representations of SO(3, 1) and the Hahn polynomials. **89d:22011**
— (*with* Suslov, S. K.) Representations of the Lorentz group SO(3, 1) and Hahn polynomials. (Russian) (*see* **89d:81002**)
Beerends, R. J. The Abel transform and shift operators. **89m:22014**
Chongdar, Asit Kumar On generating functions of Laguerre polynomials. **89a:33006**
— Lie algebra and modified Bessel polynomials. **89m:33010**
Dunkl, Charles F. Reflection groups and orthogonal polynomials on the sphere. **89b:42016**
Ghosh, Bandana On the extension of bilateral generating relation of modified Laguerre polynomials. **89e:33018**
Karande, B. K. *see* **Patil, K. R.; et al., 89e:33020**
Manocha, H. L. Harmonic analysis on the sphere S_2. **89b:22016**
Nayagude, D. M. *see* **Patil, K. R.; et al., 89e:33020**
Patil, K. R. (*with* Nayagude, D. M.; Karande, B. K.) On some properties of orthogonal polynomials related to generalized Hermite polynomials. **89e:33020**
Rozenblyum, A. V. (*with* Rozenblyum, L. V.) Representations of the rotation group, and discrete orthogonal polynomials. (Russian) (*see* **89d:81002**)
— Spectral analysis of generators of representations of the group U(3). (Russian. English summary) **89g:22023**
— (*with* Rozenblyum, L. V.) Spectral analysis of generators of representations of the unitary group. **89g:22022**
Rozenblyum, L. V. *see* **Rozenblyum, A. V., 89g:22022** *and* **(89d:81002)**
Saigo, Megumi On properties of the Lauricella hypergeometric function F_D. **89d:33008**
Suslov, S. K. *see* **Atakishiev, N. M., 89d:22011** *and* **(89d:81002)**

33A99 Miscellaneous topics

Agrawal, B. D. (*with* Prasad, Jagadamba; Bhatnagar, Km. Alpana) Certain theorems on trilateral generating relations. **89h:33020**
Barry, P. D. (*with* Hurley, D. J.) Generating functions for relatives of classical polynomials. **89f:33025**
Bhatnagar, Km. Alpana *see* **Agrawal, B. D.; et al., 89h:33020**
Chongdar, Asit Kumar On the unification of a class of bilateral generating functions for certain special functions. **89g:33015**
Debnath, Lokenath Applications of special functions in applied mathematics. **89m:33026**
Hurley, D. J. *see* **Barry, P. D., 89f:33025**
Kalinowski, M. W. (*with* Seweryński, M.; Szymanowski, Lech) On the F-equation. **89h:33021**
Pittnauer, Franz (*with* Runge, Norbert) Über asymptotische Erzeugende rekursiv definierter Funktionen. [On asymptotic generators of recursively defined functions] **89h:33022**
Prasad, Jagadamba *see* **Agrawal, B. D.; et al., 89h:33020**
Runge, Norbert *see* **Pittnauer, Franz, 89h:33022**
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Szymanowski, Lech *see* **Kalinowski, M. W.; et al., 89h:33021**

Items with secondary classifications in 33A99

Al-Bassam, M. A. On fractional analysis and its applications. **89d:26008**
Aptekarev, A. I. Asymptotic behavior of polynomials of simultaneous orthogonality and of a system of extremal problems for analytic functions. (Russian. English and French summaries) **89c:30010**
Baykara, N. A. (*with* Demiralp, M.) Analytic evaluation of equipotential hyperangular interaction integrals. (Italian and Russian summaries) **89a:81179**
Debnath, Lokenath (*with* Grum, William J.) The fractional calculus and its role in the synthesis of special functions. I. **89m:26015**
Demiralp, M. *see* **Baykara, N. A., 89a:81179**
Grum, William J. *see* **Debnath, Lokenath, 89m:26015**
Krimmer, Wolfgang (*with* Mennicken, Reinhard) ★ Entwicklungen analytischer Funktionen nach Eigenlösungen im Parameter nichtlinearer Differentialgleichungen. (German) [Expansions of analytic functions in eigensolutions in the parameter of nonlinear differential equations] **89c:34008**
Mennicken, Reinhard *see* **Krimmer, Wolfgang, 89c:34008**

34–XX Ordinary differential equations

Items with secondary classifications in 34–XX

Items listed otherwise than by author

Reviews in global analysis ★ Reviews in global analysis 1980–86. Vol. 1–5. **89f:00033**

34–01 Elementary exposition; textbooks

Fedoryuk, M. V. ★ Обыкновенные дифференциальные уравнения. (Russian) [Ordinary differential equations] **89h:34001**
Jordan, D. W. (*with* Smith, Peter[2]) ★ Nonlinear ordinary differential equations. **89a:34001**
Marinchuk, A. V. ★ Екуаций диференциале де ординул "n". (Moldavian) [Differential equations of order n] (Not in MR)
Smith, Peter[2] *see* **Jordan, D. W., 89a:34001**

Items with secondary classifications in 34–01

Mason, John C. (*with* Stocks, D. C.) ★ BASIC differential equations. **89j:65003**
Pontryagin, L. S. ★ Знакомство с высшей математикой. (Russian) [Acquaintance with higher mathematics] **89i:00001**
Stocks, D. C. *see* **Mason, John C., 89j:65003**

Items listed otherwise than by author

Biography:

Pontryagin, L. S. *see* **Pontryagin, L. S., 89i:00001**

34-02 Advanced exposition (research surveys, monographs, etc.)

Butenin, N. V. (*with* Neĭmark, Yu. I.; Fufaev, N. A.) ★ Введение в теорию нелинейных колебаний. (Russian) [Introduction to the theory of nonlinear oscillations] **89c:34001**

Ding, Tong Ren Some problems in nonlinear oscillations. (Chinese) **89i:34001**

(Efimov, O.) *see* **Levitan, B. M., 89b:34001**

Fufaev, N. A. *see* **Butenin, N. V.; et al., 89c:34001**

Gao, Zhan Hai *see* **Zhang, Di^1; et al., 89i:34002**

Grebenikov, E. A. ★ Введение в теорию резонансных систем. (Russian) [Introduction to the theory of resonance systems] **89d:34001**

Levitan, B. M. ★ Inverse Sturm-Liouville problems. **89b:34001**

Liang, Zhong Chao Nonlinear boundary value problems. (Chinese) **89m:34001**

Lopatin, A. K. *see* **Mitropol'skiĭ, Yu. A., 89h:34002**

Mitropol'skiĭ, Yu. A. (*with* Lopatin, A. K.) ★ Теоретико-групповой подход в асимптотических методах нелинейной механики. (Russian) [Group-theoretic approach in asymptotic methods of nonlinear mechanics] **89h:34002**

Neĭmark, Yu. I. *see* **Butenin, N. V.; et al., 89c:34001**

Sever, Michael ★ Ordinary differential equations. **89b:34002**

Zhang, Di^1 (*with* Zhao, Xiao Qiang; Gao, Zhan Hai) Theory of periodic solutions to ODEs in $\mathbf{R}^n$ and its applications. (Chinese) **89i:34002**

Zhao, Xiao Qiang *see* **Zhang, Di^1; et al., 89i:34002**

Zhou, Qin De Methods of small parameters (perturbation methods). (Chinese) **89k:34001**

Items with secondary classifications in 34-02

Borisenko, S. D. (*with* Kosolapov, V. I.; Obolenskiĭ, A. Yu.) ★ Устойчивость процессов при непрерывных и дискретных возмущениях. (Russian) [Stability of processes under continuous and discrete perturbations] **89h:34042**

Butuzov, V. F. ★ Сингулярные возмущения. (Russian) [Singular perturbations] **89e:34094**

Fučík, Svatopluk *see* **Kufner, A., 89k:35003**

He, Chong You Research aspects of almost periodic ODEs. (Chinese) **89m:34050**

Khapaev, Mikhail Mikhaĭlovich ★ Асимптотические методы и устойчивость в теории нелинейных колебаний. (Russian) [Asymptotic methods and stability in the theory of nonlinear oscillations] **89g:34047**

Kiguradze, I. T. (*with* Shekhter, B. L.) Singular boundary value problems for second-order ordinary differential equations. (Russian) **89f:34022**

Kosolapov, V. I. *see* **Borisenko, S. D.; et al., 89h:34042**

Kufner, A. (*with* Fučík, Svatopluk) ★ Нелинейные дифференциальные уравнения. (Russian) [Nonlinear differential equations] **89k:35003**

(Martynyuk, A. A.) *see* **Borisenko, S. D.; et al., 89h:34042**

Obolenskiĭ, A. Yu. *see* **Borisenko, S. D.; et al., 89h:34042**

O'Malley, R. E., Jr. On nonlinear singularly perturbed initial value problems. **89g:65089**

(Pokhozhaev, S. I.) *see* **Kufner, A., 89k:35003**

Samoĭlenko, A. M. ★ Элементы математической теории многочастотных колебаний. Инвариантные торы. (Russian) [Elements of the mathematical theory of multifrequency oscillations. Invariant tori] **89d:34071**

Segur, Harvey Asymptotics beyond all orders. **89g:34083**

Shekhter, B. L. *see* **Kiguradze, I. T., 89f:34022**

Sibirskiĭ, K. S. ★ Introduction to the algebraic theory of invariants of differential equations. **89k:34057**

Sofronov, E. T. ★ Устойчивость автономных систем дифференциальных уравнений. (Russian) [Stability of autonomous systems of differential equations] **89m:34071**

Weidmann, Joachim ★ Spectral theory of ordinary differential operators. **89b:47070**

(Zhukov, A. F.) *see* **Kufner, A., 89k:35003**

34-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34-03

Azbelev, N. V. The Perm seminar and the development of the theory of functional-differential equations. (Russian) **89a:01090**

Bennett, Stuart ★ A history of control engineering, 1800–1930. **89e:01027**

(Bohlin, Karl) *see* **Poincaré, Henri, 89e:01054b**

Gray, Jeremy ★ Linear differential equations and group theory from Riemann to Poincaré. **89d:01041**

(Gyldén, Hugo) *see* **Poincaré, Henri, 89e:01054b**

(Kovalevsky, J.) *see* **Poincaré, Henri, 89e:01054a**

(Krylov, N. M.) *see* **Matviishin, Ya. A., 89f:01050**

(Lindstedt, A.) *see* **Poincaré, Henri, 89e:01054b**

Martynyuk, A. A. *see* **Mitropol'skiĭ, Yu. A., 89g:70001**

Matviishin, Ya. A. The investigations of B. van der Pol in the theory of nonlinear oscillations. (Russian) **89f:01050**

Mawhin, J. Problème de Cauchy pour les équations différentielles et théories de l'intégration: influences mutuelles. [The Cauchy problem for differential equations and theories of integration: mutual influences] **89b:01023**

Mitropol'skiĭ, Yu. A. (*with* Martynyuk, A. A.) Some results and current problems in the theory of periodic motions and in nonlinear mechanics (a survey). **89g:70001**

(Newcomb, Simon) *see* **Poincaré, Henri, 89e:01054b**

Poincaré, Henri ★ Les méthodes nouvelles de la mécanique céleste. Tome I. (French) [New methods of celestial mechanics. Vol. I] **89e:01054a**

— ★ Les méthodes nouvelles de la mécanique céleste. Tome II. (French) [New methods of celestial mechanics. Vol. II] **89e:01054b**

— ★ Les méthodes nouvelles de la mécanique céleste. Tome III. (French) [New methods of celestial mechanics. Vol. III] **89e:01054c**

(van der Pol, Balthasar) *see* **Matviishin, Ya. A., 89f:01050**

Items listed otherwise than by author

Biography:

van der Pol, Balthazar *see* **Matviishin, Ya. A., 89f:01050**

Correspondence:

van der Pol, Balthazar–Krylov, N. M. *see* **Matviishin, Ya. A., 89f:01050**

34-04 Explicit machine computation and programs (not the theory of computation or programming)

Hereman, Willy (*with* Van den Bulck, Eric) MACSYMA program for the Painlevé test of nonlinear ordinary and partial differential equations. **89j:34001**

Van den Bulck, Eric *see* **Hereman, Willy, 89j:34001**

Zhidkova, I. E. ★ Программная реализация метода усреднения Крылова–Боголюбова в высших приближениях для системы двух нелинейных дифференциальных уравнений второго порядка с периодическими коэффициентами (для уравнений с линейной частью, имеющей периодические коэффициенты). (Russian) [Program implementation of the Krylov-Bogolyubov averaging method in higher approximations for a system of two second-order nonlinear differential equations with periodic coefficients (for equations with a linear part that has periodic coefficients)] (Not in MR)

— ★ Программная реализация метода усреднения Крылова–Боголюбова в высших приближениях для системы двух нелинейных дифференциальных уравнений второго порядка с периодическими коэффициентами (для уравнений с линейной частью, имеющей постоянные коэффициенты). (Russian) [Program implementation of the Krylov-Bogolyubov averaging method in higher approximations for a system of two second-order nonlinear differential equations with periodic coefficients (for equations with a linear part that has constant coefficients)] (Not in MR)

Items with secondary classifications in 34-04

Everitt, W. N. (*with* Gunson, J.; Zettl, A.) Some comments on Sturm-Liouville eigenvalue problems with interior singularities. **89h:34022**

Gunson, J. *see* **Everitt, W. N.; et al., 89h:34022**

Lepin, A. Ya. *see* **Virzhbitskiĭ, Ya. V.; et al., 89e:34039**

Lepin, L. A. *see* **Virzhbitskiĭ, Ya. V.; et al., 89e:34039**

Virzhbitskiĭ, Ya. V. (*with* Lepin, A. Ya.; Lepin, L. A.) Application of a computer to the investigation of the generalized solvability of two-point boundary value problems. **89e:34039**

Zettl, A. *see* **Everitt, W. N.; et al., 89h:34022**

34-06 Proceedings, conferences, etc.

(Anapol'skiĭ, L. Yu.) *see* **Problems in the qualitative theory of differential equations, 89j:3400**

(Kisielewicz, Michał) *see* **Differential equations and optimal control, 89a:34002**

(Matrosov, V. M.) *see* **Problems in the qualitative theory of differential equations, 89j:34002**

(Sosulski, Władysław) *see* **Differential equations and optimal control, 89a:34002**

Items listed otherwise than by author

All-Union Conference:

Qualitative Theory of Differential Equations ★ Вопросы качественной теории дифференциальных уравнений. (Russian) [Problems in the qualitative theory of differential equations] **89j:34002**

Differential equations and optimal control ★ Differential equations and optimal control. **89a:34002**

Discussion:

Topics in ordinary differential equations ★ Topics in ordinary differential equations. (Chinese) **89d:34002**

Irkutsk ★ Вопросы качественной теории дифференциальных уравнений. (Russian) [Problems in the qualitative theory of differential equations] **89j:34002**

Nanjing ★ Topics in ordinary differential equations. (Chinese) **89d:34002**

Problems in the qualitative theory of differential equations ★ Вопросы качественной теории дифференциальных уравнений. (Russian) [Problems in the qualitative theory of differential equations] **89j:34002**

Session:

Mathematicians ★ Differential equations and optimal control. **89a:34002**

Topics in ordinary differential equations ★ Topics in ordinary differential equations. (Chinese) **89d:34002**

Żagań ★ Differential equations and optimal control. **89a:34002**

Items with secondary classifications in 34-06

(Anapol'skiĭ, L. Yu.) *see* **Method of Lyapunov functions in the analysis of the dynamics of systems, 89c:00040**

(Kisielewicz, Michał) *see* **Differential equations and optimal control, 89a:49001**

(Korolyuk, V. S.) *see* **Asymptotic methods in mathematical physics, 89g:00006**

(Leontovich, E. A.) *see* **Methods of qualitative theory of differential equations, 89b:58009**

(Matrosov, V. M.) *see* **Method of Lyapunov functions in the analysis of the dynamics of systems, 89c:00040**

(Sosulski, Władysław) *see* **Differential equations and optimal control, 89a:49001**

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All-Union School:

Method of Lyapunov Functions and its Applications ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**

Asymptotic methods in mathematical physics ★ Асимптотические методы математической физики. (Russian) [Asymptotic methods in mathematical physics] **89g:00006**

Differential equations and optimal control ★ Differential equations and optimal control. **89a:49001**

Irkutsk ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**

Method of Lyapunov functions in the analysis of the dynamics of systems ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**

Methods of qualitative theory of differential equations ★ Методы качественной теории дифференциальных уравнений. (Russian) [Methods of the qualitative theory of differential equations] **89b:58009**

Session:
Mathematicians ★ Differential equations and optimal control. **89a:49001**

Żagań ★ Differential equations and optimal control. **89a:49001**

34Axx General theory

Items with secondary classifications in 34Axx

Przeworska-Rolewicz, Danuta ★ Algebraic analysis. **89m:00005**

34A05 Solutions in closed form, integration by quadratures, reduction of differential equations

Chung, Sangwoo *see* **Padovan, Joe; et al., 89h:34003**

Guo, Y. H. *see* **Padovan, Joe; et al., 89h:34003**

Jódar, Lucas Boundary value problems and Cauchy problem for the second-order Euler operator differential equation. **89d:34003**

— (*with* Mariton, M.) Explicit solutions for a system of coupled Lyapunov differential matrix equations. **89a:34003**

— Existence, uniqueness and closed form solutions for boundary value matrix problems. **89e:34001**

Leubner, C. (*with* Torggler, P.) Simplified second order two-timing approximations to small amplitude nonlinear conservative oscillations. **89j:34003**

Mariton, M. *see* **Jódar, Lucas, 89a:34003**

Padovan, Joe (*with* Chung, Sangwoo; Guo, Y. H.) Asymptotic steady state behavior of fractionally damped systems. **89h:34003**

Torggler, P. *see* **Leubner, C., 89j:34003**

Williams, Lloyd K. Linear and Riccati matrix equations. **89k:34002**

Zboĭchik, N. A. On solutions in closed form for a system of three differential equations with a functional parameter. (Russian) **89d:34004**

Items with secondary classifications in 34A05

Alikulov, T. A. Asymptotic reduction of the order of a system of second-order linear differential equations with a small parameter multiplying the derivative. (Russian) **89e:34070**

— *see also* **Shkil′, N. I., 89d:34016**

Brenig, L. Complete factorisation and analytic solutions of generalized Lotka-Volterra equations. **89j:92050**

Davenport, James H. Integration in closed form. **89k:12011**

Derr, V. Ya. On the determination of the solution of a linear differential equation with generalized functions in the coefficients. **89h:34009**

Druzhkova, T. A. (*with* Erakhtina, G. M.) Academic research by students in a general course on ordinary differential equations. (Russian) (*see* **89i:00021**)

Erakhtina, G. M. *see* **Druzhkova, T. A.**, (**89i:00021**)

González-Gascón, Francisco (*with* González-López, A.) Newtonian systems of differential equations, integrable via quadratures, with trivial group of point symmetries. **89c:58115**

González-López, A. *see* **González-Gascón, Francisco, 89c:58115**

Jódar, Lucas Algebraic and differential operator equations. **89f:34086**

— Explicit solutions for second order operator differential equations with two boundary value conditions. **89h:47070**

Kiryakova, V. S. A new differential formula for Meijer's *G*-function. **89f:33009**

Murty, K. N. (*with* Prasad, B. D. C. N.; Prasad, K. R.) A note on matrix Riccati functional differential equations. **89e:34022**

Prasad, B. D. C. N. *see* **Murty, K. N.; et al., 89e:34022**

Prasad, K. R. *see* **Murty, K. N.; et al., 89e:34022**

Rubin, Helmut Ein einfaches, allgemeingültiges Lösungskonzept für lineare Differentialgleichungen beliebiger Ordnung mit konstanten Koeffizienten und mit analytischer Störungsfunktion. (English and Russian summaries) [A simple, general solution concept for linear differential equations of arbitrary order with constant coefficients and with analytic perturbation function] **89m:34012**

Samodurov, A. A. The integrating factor of the Abel equation. (Russian) **89f:34016**

Shivaji, Ratnasingham A comparison of two methods on nonuniqueness for a class of two-point boundary value problems. **89a:34026**

Shkil′, N. I. (*with* Alikulov, T. A.) On the construction of solutions of systems of second-order linear differential equations with a small parameter multiplying the derivative. (Russian) **89d:34016**

Walcher, Sebastian Über homogene nilpotente Polynome. [On homogeneous nilpotent polynomials] **89h:17016**

34A08 Equations not solved with respect to the highest-order derivative, singular solutions

Boyarintsev, Yu. E. ★ Методы решения вырожденных систем обыкновенных дифференциальных уравнений. (Russian) [Methods for solving degenerate systems of ordinary differential equations] **89m:34002**

Chernyshov, K. I. Stability and asymptotic expansions of the solutions of an operator-differential equation that is not solved with respect to the derivative. (Russian) **89i:34003**

Gol′tser, Ya. M. (*with* Pshenbaev, S. K.) On the investigation of linear singular systems with a vector parameter. (Russian. Kazakh summary) **89d:34005**

Lin, Jing Yue (*with* Yang, Zi Hou) Existence and uniqueness of solutions for nonlinear singular (descriptor) systems. **89i:34004**

Mamontov, E. V. Some properties of a system of first-order ordinary differential nonlinear equations with a singular matrix of constant rank in front of the vector of the derivatives. (Russian) **89j:34004**

Pshenbaev, S. K. *see* **Gol′tser, Ya. M., 89d:34005**

Rafikov, F. Z. Integral representation of the general solution of a system of differential equations with a singular singularity in a space of generalized functions of slow growth. (Russian) (*see* **89j:00019**)

Turbaēv, V. Ē. Periodic solutions of differential equations that are not solved with respect to the derivative. (Ukrainian. Russian summary) **89d:34006**

Yang, Zi Hou *see* **Lin, Jing Yue, 89i:34004**

Items with secondary classifications in 34A08

Bajić, Vladimir B. Equations of perturbed motions and stability of state and semi-state systems. **89d:34081**

Diblík, Josef On conditional stability of the solutions of the systems of differential equations, not solved with respect to the derivatives. (Czech summary) **89m:34066**

Dolezal, Vaclav Generalized solutions of semistate equations and stability. **89a:34005**

Heikkilä, Seppo Solvability of differential equations involving discontinuities. (Finnish. English summary) **89i:34087**

Kachalov, V. I. (*with* Lomov, S. A.) Smoothness of the solutions of differential equations with respect to a singularly entering parameter. **89f:34081**

Krakhotko, V. V. (*with* Razmyslovich, G. P.) Linear singular systems with delay. (Russian) **89i:34090**

Krall, A. M. Singular solutions of Bessel's equation. **89g:33010**

Kurbatov, V. G. The Green function of a differential-difference equation. (Russian) **89g:34103**

Lomov, S. A. *see* **Kachalov, V. I., 89f:34081**

Marusyak, A. G. Determination of the periodic solutions of systems of first-order ordinary differential equations that are not solved with respect to the derivative. (Russian) **89g:34054**

Novikov, E. A. (*with* Yumatova, L. A.) Some methods for solving ordinary differential equations that are not solved with respect to the derivative. **89b:65194**

Prosenyuk, L. G. Existence and asymptotic behavior of *O*-solutions of a differential equation that is not solved with respect to the derivative. (Russian) **89a:34009**

Rabah, R. Note sur les systèmes implicites linéaires dans les espaces de Hilbert. [A note on linear implicit systems in Hilbert spaces] **89k:47017**

Razmyslovich, G. P. *see* **Krakhotko, V. V., 89i:34090**

Vakhidov, Sh. Existence and uniqueness of the solution of a differential equation, which cannot be solved with respect to the derivative, in a normed space. (Russian) **89d:34100**

Yumatova, L. A. *see* **Novikov, E. A., 89b:65194**

34A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions [see also 45D05]

Adams, Ernst Wilhelm *see* **Cordes, D., 89c:34003**

Akhmetgaleev, I. I. (*with* Khasanov, A. Yu.) A method of almost Euler matrices for determining the first integrals of nonlinear systems. (Russian) (*see* **89c:00040**)

Ashordiya, M. T. The Cauchy problem for a system of generalized ordinary differential equations. (Russian. English and Georgian summaries) **89g:34001**

Bahar, Leon Y. *see* **Trench, William F., 89d:34007**

Baĭnov, D. D. *see* **Dishliev, A. B., 89c:34004; 89e:34004; Simeonov, P. S., 89e:34007; 89j:34007** *and* **Dishliev, A. B., 89m:34003**

Bespalova, S. A. (*with* Klokov, Yu. A.) Solution of the Cauchy problem for a system of ordinary differential equations using Chebyshev polynomials. (Russian) **89e:34002**

Bolzern, Paolo (*with* Colaneri, Patrizio) The periodic Lyapunov equation. **89j:34005**

Borzdyko, V. I. A uniqueness theorem of S. R. Bernfeld-R. D. Driver-V. Lakshmikantham theorem type for differential equations with hysteresis nonlinearities. (Russian. Tajiki summary) **89b:34003**

— Conditions for the existence and uniqueness of a solution of the Cauchy problem for a system of ordinary differential equations with hysteresis nonlinearities. (Russian. Tajiki summary) **89e:34003**

— Uniqueness conditions for systems of differential equations with hysteresis terms. **89k:34003**

Cepītis, J. On the question of the existence of a bounded solution of a second-order equation with a nonsummable singularity. (Russian) **89a:34004**

Chandirova, F. G. A singular Cauchy problem with a nonlinear perturbation. (Russian. English and Azerbaijani summaries) **89c:34002**

Colaneri, Patrizio *see* **Bolzern, Paolo, 89j:34005**

Cordes, D. (*with* Adams, Ernst Wilhelm) Test for uniform boundedness for dynamic problems admitting parameter and combination resonance. **89c:34003**

Demidov, M. A. (*with* Klokov, Yu. A.; Mikhaĭlov, A. P.) On some singular problems for second-order ordinary differential equations. (Russian) **89b:34004**

Dishliev, A. B. (*with* Baĭnov, D. D.) Differentiability on a parameter and initial condition of the solution of a system of differential equations with impulses. **89c:34004**

— (*with* Baĭnov, D. D.) Continuous dependence on the initial condition of the solution of a system of differential equations with variable structure and with impulses. **89e:34004**

— (*with* Baĭnov, D. D.) Continuous dependence of the solution of a system of differential equations with impulses on the impulse hypersurfaces. **89m:34003**

Dolezal, Vaclav Generalized solutions of semistate equations and stability. **89a:34005**

Dosumov, T. B. Generalized solution of the Cauchy problem. (Russian. Kazakh summary) **89j:34006**

Heikkilä, Seppo (*with* Lakshmikantham, V.; Leela, S.) Applications of monotone techniques to differential equations with discontinuous right-hand side. **89g:34002**

Ivanov, A. E. The interval of existence of the solution of a Cauchy problem. (Russian) (*see* **89c:00023**)

Izobov, N. A. (*with* Rabtsevich, V. A.) The unimprovability of the I. T. Kiguradze-G. G. Kvinikadze condition for the existence of unbounded regular solutions of the Emden-

Fowler equation. (Russian) **89b:34005**

Kanevskiĭ, A. Ya. Inversion of Marachkov's theorem in the case of nonuniqueness of solutions of equations. II. (Russian) **89c:34005**

Kaper, Hans G. (*with* Kwong, Man Kam) Uniqueness for a class of nonlinear initial value problems. **89e:34005**

Khasanov, A. Yu. *see* **Akhmetgaleev, I. I.**, (**89c:00040**)

Klokov, Yu. A. *see* **Demidov, M. A.; et al., 89b:34004** *and* **Bespalova, S. A., 89e:34002**

Kolomiets, V. G. (*with* Smereka, Ī. P.; Tsikaĭlo, T.-N. M.) On the integration of differential equations by means of periodic Ateb-functions. (Russian) **89a:34006**

Kusano, Takaŝi (*with* Trench, William F.) Global existence of nonoscillatory solutions of perturbed general disconjugate equations. **89a:34007**

Kushnir, R. M. (*with* Prikarpat·skiĭ, A. K.) Conditions for the existence of fundamental solutions of ordinary differential equations in a class of generalized functions. (Russian. English summary) **89a:34008**

Kwong, Man Kam *see* **Kaper, Hans G., 89e:34005**

Lakshmikantham, V. Quasisolutions and the method of mixed monotony. **89f:34001**

— *see also* **Heikkilä, Seppo; et al., 89g:34002**

Leela, S. *see* **Heikkilä, Seppo; et al., 89g:34002**

Łuszczki, Zbigniew (*with* Rzepecki, Bogdan) An existence theorem for ordinary differential equations of order $\alpha \in (0, 1]$. **89h:34004**

Mikhaĭlov, A. P. *see* **Demidov, M. A.; et al., 89b:34004**

Moulden, T. H. (*with* Scott, M. A.) Walsh spectral analysis for ordinary differential equations. I. Initial value problems. **89e:34006**

Muntyan, V. I. (*with* Shpakovich, V. P.) On the problem of the continuous dependence of the solution of differential equations with "maxima" on the parameter. (Russian) **89k:34004**

Nagy, Éva V. An inequality of Peano's type and its consequences. **89c:34006**

Pachpatte, B. G. Existence and uniqueness of solutions of some nonlinear controlled dynamic systems. **89g:34003**

— On a class of nonlinear higher order differential equations. **89m:34004**

Popa, M. N. (*with* Sibirskiĭ, K. S.) Conditions for the existence of a homogeneous linear partial integral of a differential system. (Russian) **89f:34002**

Prikarpat·skiĭ, A. K. *see* **Kushnir, R. M., 89a:34008**

Prosenyuk, L. G. Existence and asymptotic behavior of O-solutions of a differential equation that is not solved with respect to the derivative. (Russian) **89a:34009**

Rabtsevich, V. A. *see* **Izobov, N. A., 89b:34005**

Rădulescu, Marius (*with* Rădulescu, Sorin) An application of Hadamard-Lévy's theorem to an initial value problem for the differential equation $x^{(n)} = f(t, x)$. **89i:34005**

Rădulescu, Sorin *see* **Rădulescu, Marius, 89i:34005**

Rzepecki, Bogdan *see* **Łuszczki, Zbigniew, 89h:34004**

Scott, M. A. *see* **Moulden, T. H., 89e:34006**

Shah, Swarupchand M. (*with* Wiener, Joseph) Existence theorems for analytic solutions of differential and functional-differential equations. **89i:34006**

Shpakovich, V. P. *see* **Muntyan, V. I., 89k:34004**

Sibirskiĭ, K. S. *see* **Popa, M. N., 89f:34002**

Simeonov, P. S. Continuous dependence of the solutions of systems with impulse action on the initial data and the parameter. (Russian. English and Bulgarian summaries) (Not in MR)

— Existence, uniqueness and continuability of the solutions of systems with impulse action. (Russian. English and Bulgarian summaries) (Not in MR)

— (*with* Baĭnov, D. D.) Differentiability of solutions of systems with impulse effect with respect to initial data and parameter. **89e:34007**

— (*with* Baĭnov, D. D.) Differentiability of solutions of systems with impulse effect with respect to initial data and parameter. **89j:34007**

Smereka, Ī. P. *see* **Kolomiets, V. G.; et al., 89a:34006**

Trench, William F. (*with* Bahar, Leon Y.) First integrals for equations with nonlinearities of the Emden-Fowler type. **89d:34007**

— *see also* **Kusano, Takaŝi, 89a:34007**

Tsikaĭlo, T.-N. M. *see* **Kolomiets, V. G.; et al., 89a:34006**

Wiener, Joseph *see* **Shah, Swarupchand M., 89i:34006**

Wu, Xin Yuan The initial function problem for ordinary differential equations and the constrained extreme value of its solution. (Chinese. English summary) (Not in MR)

Wu, Yong Xian *see* **Zhao, Su Xia, 89b:34006**

Zadvornyĭ, B. V. Application of Lyapunov functions to the investigation of the interval of existence of a solution. (Russian) **89e:34008**

— Dependence of the interval of existence of the solution of a differential equation on the initial data. (Russian) (Not in MR)

— Investigation of the interval of existence of a solution of a differential equation that is defined on a bounded domain. (Russian) (Not in MR)

Zhao, Su Xia (*with* Wu, Yong Xian) The criterion for representing all the solutions of equations with separated variables. (Chinese. English summary) **89b:34006**

Items with secondary classifications in 34A10

Akhmetov, M. U. (*with* Perestyuk, N. A.) On motion with impulse action on a surface. (Russian. Kazakh summary) **89f:34066**

Aksiev, A. Z. *see* **Bykov, Ya. V., 89i:39002**

Alymkulov, K. On the theory of the model Lighthill equation in the analytic case. (Russian) **89d:34011**

Andres, Ján On local ω-cycles to certain third order nonlinear differential equations. **89h:34011**

Anokhin, A. V. Linear functional-differential equations with generalized perturbations. (Russian) (*see* **89c:00008**)

Auchmuty, Giles Variational principles for operator equations and initial value problems. **89d:47130**

Badii, M. An existence and uniqueness theorem for nonlinear autonomous neutral functional differential equations. (Italian summary) **89k:34117**

Baĭnov, D. D. *see* **Dishliev, A. B., 89b:93074**

Banks, S. P. Existence of periodic solutions in n-dimensional retarded functional-differential equations. **89m:34091**

Brandi, Primo (*with* Ceppitelli, Rita) Existence, uniqueness and continuous dependence fo differential equations in a hereditary structure. (Italian. English summary) **89f:34095**

Bulgakov, A. I. A functional-differential inclusion with an operator that has nonconvex images. (Russian) **89d:34107**

Bykov, Ya. V. (*with* Aksiev, A. Z.) ★ Колеблемость решений некоторых классов уравнений в конечных разностях. (Russian) [Oscillation of the solutions of some classes of finite difference equations] **89i:39002**

Ceppitelli, Rita *see* **Brandi, Primo, 89f:34095**

Cherepennikov, V. B. Analytic solutions of some systems of functional-differential equations. (Russian) **89g:34098**

Davimuka, S. A. *see* **Dmitrevich, G. D.; et al.**, (Not in MR)

De Blasi, F. S. (*with* Myjak, J.) Random differential inclusions with nonconvex right-hand side. **89b:34137**

Derr, V. Ya. On the determination of the solution of a linear differential equation with generalized functions in the coefficients. **89h:34009**

Dishliev, A. B. (*with* Baĭnov, D. D.) Continuous dependence of the solution of a system of differential equations with impulses on the initial condition and a parameter in the presence of beating. **89b:93074**

Dmitrevich, G. D. (*with* Davimuka, S. A.; Stekh, Yu. V.) An adaptive algorithm for continuation of the solution with respect to the parameter for problems in the analysis of electronic circuits. (Russian. English summary) (Not in MR)

Duan, Kui Chen Stable oscillations of a fourth-order equation. (Chinese. English summary) **89b:34086**

Eloe, P. W. (*with* Islam, M. N.) Periodic solutions of nonlinear integral equations with infinite memory. **89h:45003**

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Kachalov, V. I. (*with* Lomov, S. A.) Smoothness of the solutions of differential equations with respect to a singularly entering parameter. **89f:34081**

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Kongsakorn, Kannika (*with* Laohakosol, Vichian) Power series solutions of linear differential equations with polynomial coefficients. **89b:34017**

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Ladde, G. S. (*with* Seikkala, Seppo) On sample solutions of random initial value and Nicoletti boundary value problems. **89a:34065**

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34A20 Differential equations in the complex domain [see also 30D05]

Ashordiya, M. T. On the unique solvability of the Cauchy problem for a system of generalized ordinary differential equations. (Russian) (*see* **89c:00009**)
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Bank, Steven B. On zero-free regions for solutions of nth order linear differential equations. **89b:34008**
— On determining the location of complex zeros of solutions of certain linear differential equations. **89j:34009**
— Addendum to: "A note on the zeros of solutions of $w'' + P(z)w = 0$ where P is a polynomial" [Appl. Anal. **25** (1987), no. 1-2, 29–41; MR 88k:34004]. **89j:34010**
— A note on the location of complex zeros of solutions of linear differential equations. **89a:34010**
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Bélair, Jacques (*with* Giroux, André) Growth properties of the solutions of a linear functional-differential equation. **89g:34005**
Bernal, Luis G. On growth k-order of solutions of a complex homogeneous linear differential equation. **89b:34010**
Clarkson, Peter A. (*with* McLeod, J. Bryce) A connection formula for the second Painlevé transcendent. **89e:34010**
Filippovich, S. N. *see* **Matatov, V. I., 89c:34009**
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It·s, A. R. (*with* Novokshenov, V. Yu.) ★ The isomonodromic deformation method in the theory of Painlevé equations. **89b:34012**
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34A35 Differential equations of infinite order

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34A40 Differential inequalities

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34A45 Theoretical approximation of solutions

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34A50 Numerical approximation of solutions {For numerical analysis, see 65Lxx.}

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34A55 Inverse problems

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Trubowitz, Eugene *see* **Kappeler, Thomas, 89f:34032** *and* **Ralston, James, 89m:34035**

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Xiao, Li Ming The general Sturm-Liouville inverse problem with asymmetric potential. (Chinese. English summary) **89k:34037**

Yamazaki, Susumu On the system of nonlinear differential equations $\dot{y}_k = y_k(y_{k+1} - y_{k-1})$. **89d:34020**

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Yurko, V. A. Uniqueness of the reconstruction of two-term differential operators from two spectra. **89g:34031**

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— A relaxation theorem for differential inclusions in Banach spaces. **89b:34034**

— Boundary value problems for evolution inclusions. **89k:34018**

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Balakumar, S. (*with* Martin, Clyde Franklin) Two-point boundary value problems and the matrix Riccati equations. **89b:34036**
Boĭchuk, A. A. Boundary value problems for weakly perturbed linear and nonlinear systems in critical cases. (Russian) **89m:34024**
Chen, Shui Lian (*with* Shao, Ming Feng; Pu, Fu Quan) Sign changes of solutions to boundary value problems for second-order linear equations. (Chinese) **89c:34018**
Chou, Jyh Horng (*with* Horng, Ing Rong) Shifted Jacobi series analysis of linear two-point boundary value problems. **89b:34037**
Churikov, V. A. Solution of a boundary value problem for a system of four linear ordinary differential equations with holomorphic coefficients. **89e:34028**
Dzhumabaev, D. S. A parametrization method for solving boundary value problems for ordinary differential equations. (Russian) **89g:34020**
Èĭdel′man, Yu. S. A two-point boundary value problem for an evolution equation with a parameter. (Russian) (*see* **89c:00008**)
Evans, David J. (*with* Yousif, W. S.) The solution of two-point boundary value problems by the alternating group explicit (age) method. **89m:34025**
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Kasymov, K. A. Estimates for solutions of a boundary value problem with an initial jump for linear differential equations. (Russian. Kazakh summary) **89m:34026**
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Bagirova, N. Kh. Asymptotic expansion of the solution of a singularly perturbed Bolza variational problem. (Russian. English and Azerbaijani summaries) **89m:49055**
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Brădeanu, Doina Some considerations on the application of the Galerkin method to unidimensional diffusion-convection problems. **89i:65074**
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Cecchi, M. (*with* Furi, Massimo; Marini, M.) About asymptotic problems for ordinary differential equations. (Italian summary) **89d:34032**
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Fernández, Francisco M. (*with* Castro, Eduardo A.) Eigenvalues from the Riccati equation. **89b:34057**
Furi, Massimo *see* **Cecchi, M.; et al., 89d:34032**
Gartland, Eugene C., Jr. Uniform high-order difference schemes for a singularly perturbed two-point boundary value problem. **89a:65116**
— Strong stability of compact discrete boundary value problems via exact discretizations. **89a:65127**
Gegelia, G. T. Some boundary value problems for linear and quasilinear ordinary differential equations. (Russian. English and Georgian summaries) **89j:34024**
Hanke, Michael (*with* März, R.; Neubauer, Andreas) On the regularization of a class of nontransferable differential-algebraic equations. **89b:34016**
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Jódar, Lucas Existence, uniqueness and closed form solutions for boundary value matrix problems. **89e:34001**
— Algebraic and differential operator equations. **89f:34086**
— Explicit solutions for second order operator differential equations with two boundary value conditions. **89h:47070**
— Explicit solutions of two-point boundary value operator problems. **89m:34082**
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Leipholz, H. H. E. On Galerkin's method interpreted as a generalized integral transformation. **89e:65080**
Lin, Peng Cheng (*with* Jiang, Ben Xian) A singular perturbation problem for periodic boundary differential equation. **89c:65087**
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März, R. *see* **Hanke, Michael; et al., 89b:34016**
Mennicken, Reinhard (*with* Möller, Manfred) Equivalence of boundary eigenvalue operator functions and their characteristic matrix functions. **89e:47016**
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Roberts, Sanford M. Further examples of the boundary value technique in singular perturbation problems. **89h:34054**
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— Research aspects of almost periodic ODEs. (Chinese) **89m:34050**

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Koltyzhenkov, V. M. Irregular variational equations along quasiperiodic solutions of Hamiltonian systems. **89i:58039**
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— (*with* Baĭnov, D. D.) Justification of partial-multiplicative averaging for functional-differential equations with maxima. (Russian. English and Bulgarian summaries) (Not in MR)
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Blankenship, Gilmer L. Applications of homogenization theory to the control of flexible structures. **89k:73049**
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Chua, Leon O. (*with* Endo, Tetsuro) Multimode oscillator analysis via integral manifolds. I. Nonresonant case. **89b:34085a**
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van Veldhuizen, M. A new algorithm for the numerical approximation of an invariant curve. **89f:65079**

34C45 Method of integral manifolds

Kolesov, A. Yu. (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) A relaxation system in a neighborhood of a point of discontinuity: reduction to the regular case. **89f:34067**

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Sobolev, V. A. Asymptotic expansions of the integral manifolds and Lyapunov functions of singularly perturbed systems. (Russian) **89g:34064**

— *see also* **Strygin, V. V., 89k:34071**

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Chua, Leon O. (*with* Endo, Tetsuro) Multimode oscillator analysis via integral manifolds. I. Nonresonant case. **89b:34085a**

— (*with* Endo, Tetsuro) Multimode oscillator analysis via integral manifolds. II. Resonant case. **89b:34085b**

Danilov, V. Ya. *see* **Martynyuk, D. I.; et al., 89e:39001**

Endo, Tetsuro *see* **Chua, Leon O., 89b:34085a** *and* **89b:34085b**

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Meiske, W. (*with* Schneider, K. R.) Topological structure of integral manifolds and period-doubling bifurcation. (German summary) **89a:58082**

O'Reilly, John *see* **Sharkey, Paul M., 89k:93059**

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34C50 Method of accelerated convergence

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34C99 None of the above, but in this section

Boularas, Driss Existence d'un centre isochrone dans les systèmes différentiels quadratiques plans. [Existence of an isochronic center in plane quadratic differential systems] (Not in MR)

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34Dxx Stability theory [see also 58F10, 93Dxx]

34D05 Asymptotic properties; characteristic exponents

Abduvaitov, Kh. On the problem of the stability of gradient systems. (Russian. English summary) **89b:34110**

Barabanov, N. E. On the Lyapunov exponent of discrete inclusions. III. **89m:34060**

— An absolute characteristic exponent of a class of linear nonstationary systems of differential equations. **89j:34064**

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Filippov, A. F. Determination of characteristic exponents of linear systems with quasiperiodic coefficients. **89j:34065**

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Rodrigues, H. M. (*with* Silveira, M.) On the relationship between exponential dichotomies and the Fredholm alternative. **89e:34082**
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Xiong, Kai Qi Global stability of the solutions of a class of systems of differential equations. (Chinese) **89b:34114**
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— *see also* **Zabreĭko, P. P.; et al., 89f:34087**
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— On the Lyapunov exponent of discrete inclusions. II. **89e:34026**
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Boyarsky, A. A matrix method for estimating the Liapunov exponent of one-dimensional systems. **89g:58118**
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Galaktionov, E. V. (*with* Silbergleit, Alexander Samuel) Absorbing sets of systems of hydrodynamic type. **89d:34060**
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Hasibeder, Günther (*with* Länger, Helmut) Simple criteria for asymptotic stability, neutral stability, and unstability. **89a:26023**
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Korovin, S. K. (*with* Mamedov, I. G.) Estimates of a small parameter ensuring asymptotic stability of singularly perturbed systems. (Russian summary) **89b:34131**
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Lu, Qi Shao Bifurcation and stability of spatially periodic solutions of nonlinear evolution equations with integral operators. **89e:34073**
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Matveev, An. A. Investigation of the stability of the solutions of second-order linear differential equations under small random perturbations. (Russian) **89e:93212**
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Nguyễn Dbarình Công A criterion for the stochastic stability of the highest Lyapunov exponent. **89e:93214**
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Pardoux, É. Wide band limit of Lyapounov exponents. **89c:60069**
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Rozov, N. Kh. *see* **Kolesov, A. Yu.; et al., 89f:34067**
Sabirov, T. *see* **Dosumov, T. B.; et al.**, (**89a:00016**)
Silbergleit, Alexander Samuel *see* **Galaktionov, E. V., 89d:34060**
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Temchenko, M. E. A method for determining the distribution of the roots of polynomials with complex coefficients with respect to the real axis. (Russian) **89g:70015**
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Voskresenskiĭ, E. V. General exponents and quasi-hyperbolic systems. (Russian) (*see* **89f:35006**)
Ye, Da Wei Qualitative analysis of a phase-locked loop with sine discriminator and frequency modulated input. (Chinese) **89b:34101**
Yoneyama, Toshiaki (*with* Sugie, J.) On the stability region of differential equations with two delays. **89i:34104**
Yoshizawa, Taro Asymptotic behaviors of solutions of differential equations. **89a:34085**
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Zabreĭko, P. P. (*with* Baĭnov, D. D.; Kostadinov, St. I.) Characteristic exponents of impulsive differential equations in a Banach space. **89f:34087**
— *see also* **Baĭnov, D. D.; et al., 89c:34067**
Zeng, Wei Yao Periodic solution and almost periodic solution of differential equation in critical case. **89k:34064**
Zeng, Zhao Pan Estimate of asymptotic stability region of large-scale systems. (Russian summary) **89d:93009**

34D10 Perturbations

Baĭnov, D. D. *see* **Simeonov, P. S., 89g:34066**
Bajić, Vladimir B. Equations of perturbed motions and stability of state and semi-state systems. **89d:34081**
Borisenko, S. D. (*with* Kosolapov, V. I.; Obolenskiĭ, A. Yu.) ★ Устойчивость процессов при непрерывных и дискретных возмущениях. (Russian) [Stability of processes under continuous and discrete perturbations] **89h:34042**
Chernetskaya, L. N. Stability on a finite interval. (Russian) **89b:34115**
Filatov, O. P. *see* **Khapaev, Mikhail Mikhaĭlovich, 89d:34082**
Ignat′ev, A. O. Stability of motion with respect to some of the variables under constantly acting perturbations. (Russian) **89i:34068**
Khapaev, Mikhail Mikhaĭlovich (*with* Filatov, O. P.) Stability of differential inclusions with multivalued perturbations. **89d:34082**
Kosolapov, V. I. *see* **Borisenko, S. D.; et al., 89h:34042**
(**Martynyuk, A. A.**) *see* **Borisenko, S. D.; et al., 89h:34042**
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Shaginyan, S. G. A problem in stability theory. (Russian. Armenian summary) **89g:34065**
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Bahnasawi, Ahmed A. *see* **Mahmoud, Magdi S., 89k:93187**
Baĭnov, D. D. (*with* Zabreĭko, P. P.; Kostadinov, St. I.) Stability of the general exponent of nonlinear impulsive differential equations in a Banach space. **89c:34067**
Barmish, B. Ross *see* **Fu, Minyue, 89i:93098**
Bhattacharjee, A. (*with* Sen, Tanaji) Geometric angles in cyclic evolutions of a classical system. **89m:70026**
Chiang, Hsiao-Dong (*with* Wu, Felix F.; Varaiya, P.) Foundations of the potential energy boundary surface method for power system transient stability analysis. **89c:93054**
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El-Owaidy, H. (*with* Zagrout, A. A.) On generalized Floquet systems. II. **89a:34013**
Evans, Robin J. *see* **Soh, Y. C., 89e:93076**
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Fu, Minyue (*with* Barmish, B. Ross) Maximal unidirectional perturbation bounds for stability of polynomials and matrices. **89i:93098**

Girardi, Mario (*with* Matzeu, Michele) Some stability results on periodic Hamiltonian trajectories. (Italian summary) **89j:70030**

Golema, Marian (*with* Jaśkiewicz, Genadiusz) Identification of the balance keeping process in standing position in the presence of short-term disturbances. (Polish. English and Russian summaries) (Not in MR)

Gol′tser, Ya. M. On a measure of the closeness of neutral systems to internal resonance. **89c:34035**

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Jaśkiewicz, Genadiusz *see* **Golema, Marian,** (Not in MR)

Jiang, Chung Li Another sufficient condition for the stability of interval matrices. **89e:93072**

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Kravets, T. F. A method for studying the stability of periodic solutions of systems with a small parameter. (Russian) **89i:34055**

Krenev, V. A. (*with* Skimel′, V. N.) The stiffness of a system with an l-estimate for the transient process. (Russian) **89g:34073**

Kuo, Tê Shêng *see* **Su, Te-Jen; et al., 89i:93100**

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Liu, Xinzhi *see* **Lakshmikantham, V., 89m:34067**

Mahmoud, Magdi S. (*with* Bahnasawi, Ahmed A.) Stabilization of discrete adaptive systems with bounded disturbances. **89k:93187**

Matzeu, Michele *see* **Girardi, Mario, 89j:70030**

Mayster, Penka Stabilité des solutions des équations différentielles perturbées par impulsions stochastiques. [Stability of the solutions of differential equations perturbed by stochastic impulses] (Not in MR)

Pinto, Manuel Asymptotic integration of a system resulting from the perturbation of an h-system. **89e:34093**

Sen, Tanaji *see* **Bhattacharjee, A., 89m:70026**

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Soh, Y. C. (*with* Evans, Robin J.) Stability analysis of interval matrices—continuous and discrete systems. **89e:93076**

Su, Te-Jen (*with* Fêng, I Kang; Kuo, Tê Shêng; Sun, Yü I.) Robust stability for linear time-delay systems with linear parameter perturbations. **89i:93100**

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Yoneyama, Toshiaki (*with* Sugie, J.) Perturbing uniformly stable nonlinear scalar delay-differential equations. **89a:34084**

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Zagrout, A. A. *see* **El-Owaidy, H., 89a:34013**

34D15 Singular perturbations

Baĭnov, D. D. *see* **Simeonov, P. S., 89k:34074**

Delcroix, Antoine Quelques propriétés asymptotiques des champs des vecteurs à surface lente. (English summary) [Some asymptotic properties of vector fields with slow surface] **89m:34065**

Martynyuk, A. A. The development of direct Lyapunov method for singularly-perturbed systems on the basis of matrix-functions. **89c:34047**

— (*with* Miladzhanov, V. G.) Investigation of the stability of autonomous singularly perturbed systems on the basis of matrix Lyapunov functions. **89i:34069**

Miladzhanov, V. G. *see* **Martynyuk, A. A., 89i:34069**

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34D25 Popov-type stability

Aĭvazyan, È. Yu. A frequency criterion for the stability of nonlinear sampled-data systems. **89c:34053**

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Rapoport, L. B. Sign-definiteness of a quadratic form under quadratic constraints and the absolute stability of nonlinear control systems. **89j:93086**

de la Sen, Manuel Guaranteed absolute stability in the presence of unmodelled dynamics. **89e:93158**

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Yakubovich, V. A. Dichotomy and absolute stability of nonlinear systems with periodically nonstationary linear part. **89j:93087**

34D30 Structural stability and analogous concepts [see also 58Fxx]

Andersen, K. Munk (*with* Sandqvist, A.) Liénard equations with bounded trajectories in the Liénard plane. **89m:34072**

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Fernandes, Maria de Lourdes C. (*with* Zanolin, Fabio) Remarks on strongly flow-invariant sets. **89b:34122**

Hale, Jack K. (*with* Stavrakakis, N.) Compact attractors for weak dynamical systems. **89e:34088**

Kartsatos, Athanassios G. (*with* Parrott, M. E.) Using fixed point theory to find the weak solutions of an abstract functional-differential equation. **89i:34078**

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Palmer, Kenneth On the stability of the center manifold. (German summary) **89h:34047**

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Bularas, Meriem Stability of invariant sets. (Russian) **89f:54074**

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— Perturbation of invariant manifolds. IV. **89i:58113**

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34D40 Ultimate boundedness

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34D99 None of the above, but in this section

Bahar, Leon Y. *see* **Kwatny, Harry G., 89m:34074**

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34Exx Asymptotic theory

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34E05 Asymptotic expansions

Abdel-aal, M. A. *see* **El-Deen, M. I. Hossam, 89d:34090**

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Andres, Ján Asymptotic properties of the solutions of a third-order differential equation with an oscillating function. (Russian) (*see* **89c:00016**)

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Gichev, T. R. Some properties of the fundamental matrix of a singularly perturbed linear system in a critical case. (Russian. English and Bulgarian summaries) **89g:34086**
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Narita, Kiyomasa Some probabilistic problems and singular perturbations in van der Pol equation. (Japanese summary) **89e:34097**

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Sukhomlin, A. A. *see* **Stanzhitskiĭ, A. N., 89i:65079**
Sun, J.-Q. (*with* Hsu, Chieh Su) A statistical study of generalized cell mapping. **89i:70041**
Sverdan, M. L. (*with* Yasinskaya, L. I.) Exponential stability of stochastic functional-differential equations under constantly acting random perturbations. (Russian. English summary) **89e:93215**
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Tsvintarnaya, N. D. General form of the coefficients of a solvable stochastic differential equation with two-dimensional time. (Russian) **89i:60128**
Tudor, Constantin (*with* Tudor, M.) On approximation of solutions for stochastic delay equations. **89b:60154**
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Twardowska, Krystyna *see* **Dawidowicz, Antoni Leon, 89j:60074**
Ushiroya, N. *see* **Kotani, Shinichi, 89f:60069**
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Vârsan, C. On the regularity of the probabilities associated with a class of stochastic equations with delay. **89m:60144**
Verichev, N. N. Mutual synchronization of stochastic self-induced oscillations of Lorenz systems. (Russian) **89h:58134**
Wagner, Wolfgang[1] Monte Carlo evaluation of functionals of solutions of stochastic differential equations. Variance reduction and numerical examples. **89k:60080**
Wedig, W. Stability of parametric systems. **89j:93135**
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Wójcicki, Z. *see* **Iwankiewicz, R., 89i:70039**
Xia, Ning Mao The density function of the solution of a two-point boundary value problem containing small stochastic processes. **89d:34042**
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34Gxx Differential equations in abstract spaces [see also 58D25]

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Angenent, S. B. *see* **Clément, Ph.; et al., 89b:47058**
Clément, Ph. (*with* Heijmans, H. J. A. M.; Angenent, S. B.; van Duijn, C. J.; de Pagter, B.) ★ One-parameter semigroups. **89b:47058**
van Duijn, C. J. *see* **Clément, Ph.; et al., 89b:47058**
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34G10 Linear equations [see also 47Axx, 47Bxx, 47D05]

Acquistapace, Paolo (*with* Terreni, Brunello) A unified approach to abstract linear nonautonomous parabolic equations. **89e:34099**
Amrein, W. O. (*with* Berthier, Anne-Marie; Georgescu, V.) Weighted estimates for differential operators with operator-valued coefficients. (French summary) **89a:34066**
Arosio, A. Abstract linear hyperbolic equations. **89a:34067**
Aslanov, G. I. The Green function and the spectrum of higher-order operator-differential equations with general boundary conditions. (Russian) (*see* **89g:00008**)
Bainov, D. D. (*with* Kostadinov, St. I.) Exponential stability of the solutions of linear homogeneous differential equations with impulse effect in a Banach space. **89b:34142**
— *see also* **Zabreiko, P. P.; et al., 89f:34087**
Berthier, Anne-Marie *see* **Amrein, W. O.; et al., 89a:34066**
Bragg, Louis R. Nonhomogeneous differential equations that involve iterated operators. (Portuguese summary) **89a:34068**
Chen, Ming Jun *see* **Chen, Zhong Ying, 89i:34086**
Chen, Zhong Ying (*with* Chen, Ming Jun) Generalized solutions for a class of evolution equations containing second derivatives with respect to time. (Chinese. English summary) **89i:34086**
Coulhon, Thierry (*with* Lamberton, D.) Régularité L^p pour les équations d'évolution. [L^p-regularity for evolution equations] **89e:34100**
Da Prato, G. (*with* Ichikawa, Akira) Bounded solutions on the real line to nonautonomous Riccati equations. (Italian summary) **89d:34098**
Filinkov, A. I. *see* **Mel′nikova, I. V., 89g:34092**
Fishman, I. P. Boundary values of biharmonic functions. (Russian) **89h:34057**
Gafarov, I. A. A conditionally well-posed Cauchy problem. (Russian) **89j:34087**
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Godzhaev, È. M. *see* **Shakhmurov, V. B., 89c:34066**
Gorbachuk, V. M. The Dirichlet problem for a second-order operator-differential equation on a semi-axis. (Russian) **89j:34088**
Huang, Fa Lun On the mathematical model for linear elastic systems with analytic damping. **89k:34106**
Ichikawa, Akira *see* **Da Prato, G., 89d:34098**
Jódar, Lucas Algebraic and differential operator equations. **89f:34086**
— Explicit solutions of two-point boundary value operator problems. **89m:34082**
Kerscher, Wolfgang (*with* Nagel, Rainer) Positivity and stability for Cauchy problems with delay. **89k:34107**
Korolyuk, V. S. (*with* Plotkin, Ya. D.; Turbin, A. F.) An evolution operator of a nonautonomous singularly perturbed differential equation in a Banach space. (Russian) **89j:34089**
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Labbas, Rabah Équation elliptique abstraite du second ordre et équation parabolique pour le problème de Cauchy abstrait. (English summary) [Abstract elliptic equation of the second order and abstract Cauchy problem of parabolic type] **89a:34069**
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Mel′nikova, I. V. (*with* Filinkov, A. I.) A connection between the well-posedness of the Cauchy problem for an equation and for a system in a Banach space. **89g:34092**
Nagel, Rainer *see* **Kerscher, Wolfgang, 89k:34107**
Okazawa, Noboru *see* **Takenaka, Tosiharu, 89b:34145**
Oleĭnik, L. A. Inhomogeneous boundary value problems for fourth-order operator-differential equations. (Russian) **89g:34093**
Plotkin, Ya. D. (*with* Turbin, A. F.) The evolution operator of a nonautonomous singularly perturbed differential equation in a Banach space. (Russian) **89e:34101**
— *see also* **Korolyuk, V. S.; et al., 89j:34089**
Povoas, M. On a class of degenerate second order abstract differential equations. (Italian summary) **89c:34064**
Putilova, E. N. Exponential representation of the solution of a linear nonstationary differential equation in a Banach space. (Russian) **89c:34065**
Rolewicz, S. On uniform stability of uniformly bounded weak evolution operators. (*see* **89b:90117**)
Sacchetti, Dario (*with* Tarsia, Antonio) Regularity of the solution of the Cauchy problem for an abstract first-order equation in Hilbert spaces. (Italian. English summary) **89d:34099**
Shakhmurov, V. B. (*with* Godzhaev, È. M.) Coercive boundary value problems of degenerate operator-differential equations in a half-space. (Russian. English and Azerbaijani summaries) **89c:34066**
Shestakov, A. A. On the localization of the limit set of the solutions of an evolution equation by means of Lyapunov functionals. (Russian) **89b:34144a**
— Letter to the editor: "On the localization of the limit set of the solutions of an evolution equation by means of Lyapunov functionals". (Russian) **89b:34144b**
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Vakhidov, Sh. Existence and uniqueness of the solution of a differential equation, which cannot be solved with respect to the derivative, in a normed space. (Russian) **89d:34100**
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Volkova, M. R. On a class of evolution equations. (Russian) (*see* **89b:00008**)
Zabreĭko, P. P. (*with* Bainov, D. D.; Kostadinov, St. I.) Characteristic exponents of impulsive differential equations in a Banach space. **89f:34087**
Zaidman, S. A note on the well-posed ultra-weak Cauchy problem. (French summary) **89a:34070**
— Some linear operators connected with abstract differential equations. **89k:34108**
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— Uniqueness of bounded weak solutions to the equation $u'(t)=a(t)Au(t)$ in Hilbert spaces. **89j:34091**

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Abdulkerimov, L. Sh. Determination of the right-hand sides of uniformly well-posed evolution equations. (Russian. English and Azerbaijani summaries) **89e:47059**
Abudov, A. A. Essential selfadjointness and a theorem on the separability of the Sturm-Liouville equation with variable operator coefficients on the half axis. (Russian) **89f:47070**
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— (*with* Batty, C. J. K.) Tauberian theorems and stability of one-parameter semigroups. **89g:47053**
Aslanov, G. I. On the asymptotic distribution of eigenvalues of operator-differential equations of order $2n$. (Russian. English and Azerbaijani summaries) (Not in MR)
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Baĭnov, D. D. *see* **Zabreĭko, P. P.; et al., 89b:34120**
Bairamogly, M. The regularized trace of a differential operator of order $2n$ with an unbounded operator coefficient. (Russian) **89h:47067**
— (*with* Kurbanova, R. D.) Asymptotic formulas for the sum of powers of negative eigenvalues of an abstract Sturm-Liouville operator with a singularity at zero. (Russian. English and Azerbaijani summaries) **89h:34018**

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Batty, C. J. K. *see* **Arendt, Wolfgang, 89g:47053**

Bittner, R. (*with* Kobus, Z.) About eigensolutions of abstract differential equations with mixed conditions. (Not in MR)

Bondarenko, N. P. Selfadjoint extensions of the minimal operator generated by a degenerate Sturm-Liouville operator-differential equation. (Russian. English summary) **89b:47068**

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Burim, V. M. (*with* Kutovoĭ, V. A.) Conditions for the absence of condensation points of the discrete spectrum for the Sturm-Liouville equation with unbounded operator potential. (Ukrainian. Russian summary) **89f:47071**

Burnap, Charles (*with* Zweifel, P. F.) Cauchy problems involving nonselfadjoint operators. **89g:35110**

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Da Prato, G. (*with* Sinestrari, E.) Differential operators with nondense domain. **89f:47062**

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Ègamberdiev, O. M. *see* **Atakhodzhaev, M. A., 89c:35148**

Èĭdel′man, Yu. S. A two-point boundary value problem for an evolution equation with a parameter. (Russian) (*see* **89c:00008**)

Falaleev, M. V. *see* **Sidorov, N. A., 89i:45018**

Favini, Angelo An operational method for abstract degenerate evolution equations of hyperbolic type. **89d:47018**

Gamidov, N. M. The Cauchy problem with reverse time flow for an evolution equation. (Russian. English and Azerbaijani summaries) **89h:35146**

Guidetti, Davide On the asymptotic behavior of solutions of linear nonautonomous parabolic equations. (Italian summary) **89d:35077**

Gyllenberg, M. *see* **Clément, Ph.; et al., 89i:47072**

Heijmans, H. J. A. M. *see* **Clément, Ph.; et al., 89i:47072**

Ismailov, Z. I. Extensions, without a spectrum, of the minimal operator generated by a first-order operator-differential expression. (Russian) **89g:47060**

Jódar, Lucas Explicit solutions for second order operator differential equations with two boundary value conditions. **89h:47070**

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Kuksin, S. B. Hamiltonian perturbations of infinite-dimensional linear systems with imaginary spectrum. (Russian) **89a:34073**

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— (*with* Terreni, Brunello) Sommes d'opérateurs de type elliptique et parabolique. II. Applications. (Italian summary) [Sums of operators of elliptic and parabolic type. II. Applications] **89g:47017**

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— Bounded solutions of linear periodic abstract parabolic equations. **89i:47075**

Lyubich, Yu. I. (*with* Vũ Quốc Phóng) Asymptotic stability of linear differential equations in Banach spaces. **89e:47062**

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Nakagiri, Shinichi (*with* Yamamoto, Masahiro) Identifiability of linear retarded systems in Banach spaces. **89i:93033**

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Rabah, R. Note sur les systèmes implicites linéaires dans les espaces de Hilbert. [A note on linear implicit systems in Hilbert spaces] **89k:47017**

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Shananin, N. A. On the local properties of a class of evolution equations in a Hilbert space. (Russian) **89b:35165**

Shkalikov, A. A. Strongly damped operator pencils and the solvability of the corresponding operator-differential equations. **89i:47023**

Sidorov, N. A. (*with* Falaleev, M. V.) Generalized solutions of degenerate differential and integral equations in Banach spaces. (Russian) **89i:45018**

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Sviridyuk, G. A. The Cauchy problem for a linear operator equation of Sobolev type with a nonpositive operator multiplying the derivative. (Russian) **89d:47021**

— The Cauchy problem for a linear singular operator equation of Sobolev type. (Russian) **89f:47017**

Tepoyan, L. P. Fourth-order degenerate operator-differential equations. (Russian) **89a:35221**

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Thieme, Horst R. *see* **Clément, Ph.; et al., 89i:47072**

Triggiani, R. Finite rank, relatively bounded perturbations of semigroup generators. III. A sharp result on the lack of uniform stabilization. **89j:93094**

Umbetzhanov, D. U. Almost multiperiodic solutions of differential equations in a Banach space. (Russian. Kazakh summary) **89h:35031**

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Zhou, Hong Ding Second-order evolution equations in Hilbert spaces. (Chinese) **89i:47082**

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Agase, S. B. Existence and stability of mild solutions of semilinear differential equations in locally convex spaces. **89b:34146**

— *see also* **Krishna, S. V., 89a:34072**

Akhiezer, T. A. Convergence of the trajectories of dynamical systems generated by nonexpanding mappings. (Russian) **89h:34059**

Baĭnov, D. D. (*with* Kostadinov, St. I.; Myshkis, A. D.) Bounded and periodic solutions of differential equations with impulse effect in a Banach space. **89b:34147**

— (*with* Zabreĭko, P. P.; Kostadinov, St. I.) Stability of the general exponent of nonlinear impulsive differential equations in a Banach space. **89c:34067**

— (*with* Kostadinov, St. I.; Zabreĭko, P. P.) L_p-equivalence of impulsive equations. **89m:34083**

Balaev, M. K. Solvability of differential equations of arbitrary order with unbounded operator coefficients. (Russian. English and Azerbaijani summaries) **89k:34109**

— Higher-order evolution equations of parabolic type. (Russian. English and Azerbaijani summaries) **89k:34110**

Bermúdez de Castro, Alfredo (*with* Rodriguez, Carmen) A nonlinear evolution equation modelling the Marangoni effect: existence of solution and numerical methods. (French summary) **89g:34094**

Busenberg, Stavros (*with* Martelli, Mario) Bounds for the period of periodic orbits of dynamical systems. **89a:34071**

Coleman, Courtney S. Dynamical equivalence and unbounded polynomial differential systems. **89k:34111**

Dosumov, T. B. (*with* Sabirov, T.; Khamitov, M. Kh.) Some questions of the stability of the solution of differential equations in a Banach space. (Russian) (*see* **89a:00016**)

Dzhavadova, F. M. A two-parameter selfadjoint boundary value problem with operator coefficients. (Russian) (*see* **89b:41001**)

Futák, Ján On boundedness and stability of solutions of nonlinear second order differential equations in Hilbert spaces. **89d:34102**

Gaĭshun, I. V. Periodic solutions of linear total differential equations. (Russian. English summary) **89e:34102**

Ghidaglia, Jean-Michel (*with* Temam, Roger) Regularity of the solutions of second order evolution equations and their attractors. **89g:34095**

Heikkilä, Seppo Solvability of differential equations involving discontinuities. (Finnish. English summary) **89i:34087**

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Hong, Jia Lin Existence and uniqueness of generalized solution of discontinuous differential equations in Banach space. **89k:34112**

Kartsatos, Athanassios G. A direct method for the existence of evolution operators associated with functional evolutions in general Banach spaces. **89j:34093**

Kenmochi, Nobuyuki (*with* Kubo, Masahiro) Periodic solutions to a class of nonlinear variational inequalities with time-dependent constraints. **89k:34113**

Khamitov, M. Kh. *see* **Dosumov, T. B.; et al.**, (**89a:00016**)

Khol′kin, A. M. *see* **Rofe-Beketov, F. S., 89b:34150**

Klimenko, N. S. Asymptotic integration of a differential equation with slowly changing and oscillating coefficients in a Banach space. (Russian) **89f:34088**

Kostadinov, St. I. *see* **Baĭnov, D. D.; et al., 89b:34147; 89c:34067** *and* **89m:34083**

Krejčí, Pavel On Ishlinskiĭ's model for non-perfectly elastic bodies. (Russian and Czech summaries) **89i:34088**

Krishna, S. V. (*with* Agase, S. B.) Ordinary and measure differential equations using fixed point theorems in lattice normed spaces. **89a:34072**

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Kuksin, S. B. Hamiltonian perturbations of infinite-dimensional linear systems with imaginary spectrum. (Russian) **89a:34073**

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Lunardi, A. On the local dynamical system associated to a fully nonlinear abstract parabolic equation. **89d:34103**

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Maksimov, V. I. Existence of strong solutions of differential equations in a Hilbert space. **89e:34103**

Marques, Manuel D. P. Monteiro Rafle par un convexe semi-continu inférieurement d'intérieur non vide en dimension finie. [Sweeping process by a lower semicontinuous convex set with nonempty interior in finite dimension] **89f:34090**

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— On quasilinear differential inclusions in Banach spaces. (Russian summary) **89e:34104**

— A property of the solution set of differential inclusions in Banach spaces with a Carathéodory orientor field. **89g:34096**

Park, Jong Yeoul Asymptotic behavior of periodic solutions in Banach space. **89f:34092**

Popescu, Vasile (*with* Răşcanu, A.) On bounded deterministic and stochastic integral contractors. **89j:34094**

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Rădulescu, Sorin (*with* Rădulescu, Marius) An application of Hadamard-Lévy's theorem to a scalar initial value problem. **89k:34114**
Ramanujam, N. (*with* Sunanda Kumari, V. M.) Singularly perturbed boundary value problems for differential equations in Banach space. **89b:34149**
— (*with* Sunanda Kumari, V. M.) Singularly perturbed initial value problems for differential equations in a Banach space. **89k:34115**
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Rofe-Beketov, F. S. (*with* Khol'kin, A. M.) The connection between the spectral and oscillation properties of operator-differential equations of arbitrary order. I. Theorems of Sturm type. (Russian) **89b:34150**
Rzepecki, Bogdan Applications of Sadovskiĭ's fixed point theorem to equations in Banach spaces. **89c:34068**
Sabirov, T. *see* **Dosumov, T. B.; et al., (89a:00016)**
Schuchman, Vladimir On behavior of solutions of nonlinear differential equations in Hilbert space. II. **89j:34095**
Shamilov, A. Kh. On the theory of special boundary value problems for abstract differential equations. **89k:34116**
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Szufla, Stanisław Boundary value problems for nonlinear ordinary differential equations in Banach spaces. **89f:34093**
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Vitanza, Carmela L^p and Hölder continuity regularity results for the degenerate Cauchy problem. (Italian summary) **89d:34104**
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Zang, Zhu Quan A note on the theorem of Lakshmikantham and Leela. **89d:34105**

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Aliev, Fakhraddin Abbas oglu *see* **Maksudov, F. G., 89h:35216**
Amann, Herbert Parabolic evolution equations and nonlinear boundary conditions. **89e:35066**
— Dynamic theory of quasilinear parabolic equations. I. Abstract evolution equations. **89j:35072**
Angermann, L. Die Grundgleichungen der inneren Elektronik—ein Evolutionsproblem im Banach-Raum. (English and Russian summaries) [The basic equations of inner electronics—an evolution problem in Banach space] **89c:35147**
Banks, H. T. (*with* Ito, Kazufumi) A theoretical framework for convergence and continuous dependence of estimates in inverse problems for distributed parameter systems. (Not in MR)
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Brown, Robert F. Topological identification of multiple solutions to parametrized nonlinear equations. **89e:47087**
Castaing, C. Quelques résultats de convergence dans les inclusions differentielles. [Some results on convergence in differential inclusions] **89j:34020**
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Da Prato, G. Nonlinear stochastic evolution equations in Hilbert spaces. **89a:60149**
— (*with* Lunardi, A.) Stability, instability and center manifold theorem for fully nonlinear autonomous parabolic equations in Banach space. **89e:35019**
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Kubiaczyk, I. Existence theorem for hyperbolic equation in Banach space. **89m:35211**
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Reissig, M. Ein abstraktes nichtlineares Cauchy-Kowalewskaja-Theorem mit singulären Koeffizienten. II. (English and Russian summaries) [An abstract nonlinear Cauchy-Kovalevskaya theorem with singular coefficients. II] **89j:35010**
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Tesei, Alberto Qualitative properties of solutions for a class of quasilinear parabolic equations. (Italian. English summary) **89d:35088**
Vlasov, V. V. Properties of solutions of a class of operator-differential equations. (Russian)

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Welsh, Stewart C. Global results concerning bifurcation for Fredholm maps of index zero with a transversality condition. **89j:47036**

34G99 None of the above, but in this section

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Betancor, Jorge Juan A Cauchy problem associated with an operator semigroup with infinitesimal generator $B_{\alpha_1,\alpha_2}=x^{1-\alpha_1-\alpha_2}Dx^{\alpha_1}Dx^{\alpha_2}$. (Spanish. English summary) **89k:47057**

Papageorgiou, Nikolaos S. Random functional-differential inclusions with nonconvex right-hand side in a Banach space. **89h:60102**

34H05 Control problems [see also 49–XX, 93–XX]

Bagirova, N. Kh. Asymptotic behavior of the solution of a singularly perturbed optimal control problem. (Russian. English and Azerbaijani summaries) **89d:34106**

Campbell, Stephen L. Control problem structure and the numerical solution of linear singular systems. **89h:34061**

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Wang, Guang Xiong (*with* Yang, Qing) Analysis of self-sustained oscillations in digital control systems—the discrete describing function method and its application. (Chinese. English summary) **89i:34089**

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— (*with* Rampazzo, Franco) On differential systems with vector-valued impulsive controls. (Italian summary) **89i:93078**

Davideanu, Cătălina Maximum principle for control problems governed by bilinear finite-dimensional inequalities. **89k:49017**

Dochev, Docho T. (*with* Stoyanova, T. G.) On a multicriteria problem in differential-difference systems. (Russian. English and Bulgarian summaries) **89d:34124**

Everitt, W. N. Linear control theory and quasidifferential equations. **89c:93010**

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Gusev, M. I. On the stability of solution of the inverse problems in control system dynamics. (Russian summary) **89i:93031**

Kalinin, A. I. (*with* Schastnyĭ, S. F.) Minimization of quadratic functionals on the trajectories of linear singularly perturbed systems. (Russian) **89c:49024**

Muminov, G. M. An unimprovable estimate of a nonoscillation interval for a class of second-order linear differential equations. **89f:34047**

Petrov, D. I. Bifurcation values of the parameters in a problem on forced oscillations in control systems with delays. (Russian. English and German summaries) **89j:70033**

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Sperber, Wolfram On necessary optimality conditions for an optimal control problem for a system of differential equations using the method of Lagrange multipliers. **89f:49025**

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Yu, Jing Yuan (*with* Guo, Bao Zhu; Zhu, Guang Tian) Control of a semidiscrete population evolution system. (Chinese. English summary) **89a:92053**

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34Kxx Functional-differential and differential-difference equations , with or without deviating (or retarded) arguments

Kolmanovskiĭ, V. B. (*with* Myshkis, A. D.; Nosov, V. R.) The current theory of equations with aftereffect from positions of its application. (Russian) (*see* **89j:00030**)

Myshkis, A. D. *see* **Kolmanovskiĭ, V. B.; et al.**, (**89j:00030**)

Nosov, V. R. *see* **Kolmanovskiĭ, V. B.; et al.**, (**89j:00030**)

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Germanovich, O. P. ★ Линейные периодические уравнения нейтрального типа и их приложения. (Russian) [Linear periodic equations of neutral type and their applications] **89c:34076**

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Anastasova, K. I. A generalization of an ill-posed problem for a nonlinear equation of neutral type. (Bulgarian. English and Russian summaries) **89e:34106a**

— Reconstruction of the initial function for a nonlinear equation of neutral type. (Bulgarian. English and Russian summaries) (Not in MR)

Anokhin, A. V. Linear functional-differential equations with generalized perturbations. (Russian) (*see* **89c:00008**)

Ashordiya, M. T. An initial value problem for systems of generalized ordinary differential equations. (Russian) (*see* **89b:00008**)

Azbelev, N. V. (*with* Maksimov, V. P.) On the problem of reducible functional-differential equations. (Russian) (*see* **89c:00008**)

Badii, M. An existence and uniqueness theorem for nonlinear autonomous neutral functional differential equations. (Italian summary) **89k:34117**

Bashkirov, A. I. Some properties of the Cauchy matrix of an equation of neutral type with periodic parameters. (Russian) (*see* **89c:00009**)

Boese, F. G. On the lag-dependence of the zeros of the characteristic functions for a class of difference differential equations. **89f:34094**

Borisenko, S. D. Linear functional-differential equations with impulse action. (Russian) (*see* **89c:00026**)

— Estimates for the solutions of differential-difference equations with impulse action. (Russian) **89c:34069**

Brandi, Primo (*with* Ceppitelli, Rita) Existence, uniqueness and continuous dependence for differential equations in a hereditary structure. (Italian. English summary) **89f:34095**

Bulgakov, A. I. Functional-differential inclusions with a nonconvex-valued operator. (Russian) (*see* **89c:00009**)

— A functional-differential inclusion with an operator that has nonconvex images. (Russian) **89d:34107**

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Cherepennikov, V. B. Analytic solutions of a class of functional-differential equations. (Russian) (*see* **89c:00019**)

— Analytic solutions of some systems of functional-differential equations. (Russian) **89g:34098**

Cooke, Kenneth (*with* Wiener, Joseph) Neutral differential equations with piecewise constant arguments. (Italian summary) **89e:34107**

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Dairbaeva, G. Reduction of a system of differential equations with aftereffect to a countable system of differential equations. (Russian) (*see* **89a:00016**)

Dasare, V. N. *see* **Shendge, G. R.**, (Not in MR)

Deo, S. G. (*with* Torres, Euclides F.) Generalized variation-of-constants formula for nonlinear functional-differential equations. **89b:34152**

Dłotko, Tadeusz Solutions of some nth order functional-differential equations. **89c:34070**

Domoshnitskiĭ, A. I. On the problem of the conditions for nonvanishing of the Wronskian for second-order equations with delay. (Russian) (*see* **89c:00008**)

Gatica, Juan A. (*with* Waltman, Paul) A system of functional-differential equations modeling threshold phenomena. **89h:34062**

Gavrin, V. P. (*with* Kabak, G. I.) On the invertibility of a functional-differential operator. (Russian. English summary) **89b:34153**

Gusarenko, S. A. Functional-differential equations with a nonlinear superposition operator. (Russian) (*see* **89b:00008**)

— Solvability of equations of neutral type with a locally Volterra operator. (Russian) **89g:34100**

Jackiewicz, Zdzisław Existence and uniqueness of solutions of neutral delay-differential equations with state dependent delays. **89b:34154**

Janiak, Teresa (*with* Łuczak-Kumorek, Elżbieta) The Filippov's type theorem for functional-differential equations of neutral type. **89e:34108**

— (*with* Łuczak-Kumorek, Elżbieta) A theorem on partial middling for functional-differential equations of the neutral type. (Serbo-Croatian summary) **89d:34108**

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Khusainov, D. Ya. The effect of delay in systems of neutral type. (Russian) **89f:34096**

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Łuczak-Kumorek, Elżbieta The existence theorem for functional-differential inclusions of neutral type. **89c:34071**

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Maksudov, Sh. T. (*with* Turaev, Kh.) On the solution of ordinary differential equations with deviating argument. (Russian) **89k:34118**

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Matushkina, T. V. A method for the approximate solution of a differential equation with nonlinear delay. (Russian) (*see* **89c:00008**)

Mironov, N. P. Comparison of solutions of nonlinear differential equations with delay. (Russian) (*see* **89f:35006**)

Nadareĭshvili, V. A. On the existence of monotone solutions of higher-order linear differential equations with deviating argument. (Russian. English and Georgian summaries) **89g:34101**

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— Forced vibrations in control systems with variable delay. (Russian) **89m:34084**

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Shamilov, A. Kh. (*with* Mamedov, È. A.) Existence and uniqueness theorems for the solution of a special problem for functional-differential equations of "neutral type". (Russian. English and Azerbaijani summaries) **89e:34110**

— (*with* Mamedov, È. A.) Solvability of a special problem for second-order functional-differential equations. (Russian. English and Azerbaijani summaries) (Not in MR)

Shao, Zhou De Kneser's theorem for a class of neutral functional-differential equations. (Chinese. English summary) **89i:34091**

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Shendge, G. R. (*with* Dasare, V. N.) A note on functional-differential inequalities. (Not in MR)

Shevelo, V. N. An approach to the study of the properties of the solutions of functional-differential equations. (Russian) **89i:34092**

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Zhukovskiĭ, E. S. Differential inequalities and estimates for the solutions of a functional-differential equation. (Russian) (*see* **89c:00008**)
Zverkin, A. M. On the theory of differential-difference equations with delay that is commensurable with the period of the coefficients. **89m:34085**

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Azbelev, N. V. The Perm seminar and the development of the theory of functional-differential equations. (Russian) **89a:01090**
Baĭnov, D. D. (*with* Milusheva, S. D.) Justification of the averaging method for a system of functional-differential equations with variable structure and impulses. **89m:34053**
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Borzdyko, V. I. Uniqueness conditions for systems of differential equations with hysteresis terms. **89k:34003**
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Diekmann, O. Perturbed dual semigroups and delay equations. **89e:47061**
Győri, I. Connections between compartmental systems with pipes and integro-differential equations. **89c:92020**
— ★ Two approximation techniques for functional differential equations. **89m:34020**
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Kaminogo, Takashi Continuous dependence of solutions for integro-differential equations with infinite delay. **89c:45004**
Kim, A. V. On the method of Lyapunov functions for systems with aftereffect. (Russian) **89g:34070**
Koksalov, K. K. On the estimation of errors connected with the passage from differential-difference equations to partial differential equations, and their application. (Russian) (*see* **89a:00016**)
Kolmanovskiĭ, V. B. Periodic solutions of stochastic equations with afteræffect. **89g:60186**
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Lasiecka, Irena (*with* Manitius, A.) Differentiability and convergence rates of approximating semigroups for retarded functional-differential equations. **89i:65062**
Lebedev, A. L. Ideal observability of discrete systems with delay. (Russian) **89b:93026**
Lee, Ching Tsung General solution to the spherical Raman-Nath equation. **89a:81038**
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Metel′skiĭ, A. V. A criterion for the observability of systems of differential-difference equations. (Russian. English summary) **89d:93016**
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Seikkala, Seppo Existence of solutions to Volterra functional integral equations with infinite delay. **89c:34085**
Shah, Swarupchand M. (*with* Wiener, Joseph) Existence theorems for analytic solutions of differential and functional-differential equations. **89i:34006**
Shalamov, A. S. Statistical analysis of differential-difference systems. **89c:34063**
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Straburzyński, Jan On the existence, uniqueness and continuous dependence of solutions of the Goursat problem for differential-functional equations of hyperbolic type. **89f:35192**
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Tanabe, Hiroki On fundamental solution of differential equation with time delay in Banach space. **89j:34090**
— Structural operators for linear delay-differential equations in Hilbert space. **89k:47061**
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— (*with* Tudor, M.) On approximation of solutions for stochastic delay equations. **89b:60154**
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34K10 Boundary value problems

Azbelev, N. V. (*with* Maksimov, V. P.; Khudyakov, S. P.) On the problem of the regularizability of equations. (Russian) (*see* **89b:00008**)
Drakhlina, N. Sh. An approach to the approximate solution of boundary value problems for functional-differential equations. (Russian) (*see* **89b:00008**)
El-Namoury, A. R. M. On the solution of a boundary value problem with retarded argument. **89a:34075**
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Haščák, Alexander Disconjugacy and multipoint boundary value problems for linear differential equations with delay. **89m:34086**
Ibraimkulov, A. M. Spectral properties of a boundary value problem for an equation with a deviating argument. (Russian. Kazakh summary) **89j:34096**
Jabłoński, Marian (*with* Twardowska, Krystyna) On boundary value problems for differential equations with a retarded argument. **89g:34102**
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Koplatadze, R. G. Integral conditions for the oscillation of the solutions of *n*th order differential inequalities and equations with delay. (Russian. English and Georgian summaries) **89e:34113**
Korozhneva, M. Yu. (*with* Mosyagin, V. V.) A boundary value problem for a first-order nonlinear functional-differential equation with a parameter. (Russian) **89c:34074**
Kovach, Yu. I. (*with* Gal′, M. M.) ★ О двустороннем аналитическом методе академика С. А. Чаплыгина для дифференциальных уравнений. (Russian) [Academician S. A. Chaplygin's two-sided analytic method for differential equations] **89b:34157**
Kurbatov, V. G. The Green function of a differential-difference equation. (Russian) **89g:34103**
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Mosyagin, V. V. The method of monotone operators in the theory of boundary value problems for nonlinear functional-differential equations in a Banach space. (Russian) **89j:34098**
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Smolin, Yu. N. The generalized semigroup property of the Cauchy matrix of a linear boundary value problem. (Russian) (*see* **89b:00008**)
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Rakhmatullina, L. F. Definition of the solution of an equation with deviating argument. (Russian) **89c:34072**

— The regularization of linear boundary value problems. (Russian) **89b:47020**

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Aftabizadeh, A. R. (*with* Huang, Yong Kang; Wiener, Joseph) Bounded solutions for differential equations with reflection of the argument. **89k:34119**

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Andreeva, E. A. Optimal control of systems with retarded argument. (Russian. English summary) **89h:34064**

Angelova, D. C. (*with* Baĭnov, D. D.) Oscillatory and asymptotic behaviour of the solutions of first-order functional-differential equations. **89m:34088**

— (*with* Baĭnov, D. D.) Necessary and sufficient conditions for the existence of nonoscillatory solutions and oscillation of all solutions of second order functional-differential equations. **89b:34158**

Baĭnov, D. D. (*with* Myshkis, A. D.; Zakhariev, Andreĭ) Sufficient conditions for the existence of bounded nonoscillating solutions of functional-differential equation of neutral type. **89m:34089**

— (*with* Myshkis, A. D.; Zakhariev, Andreĭ) Oscillatory properties of the solutions of linear equations of neutral type. **89m:34090**

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Banks, S. P. Existence of periodic solutions in *n*-dimensional retarded functional-differential equations. **89m:34091**

Bowcock, J. E. (*with* Yu, Yuan Hong) Sharp conditions for oscillations caused by retarded and advanced perturbations. **89i:34093**

Brodovskiĭ, V. G. On periodic solutions of a system of differential equations with a deviating argument. (Russian. Kazakh summary) **89i:34094**

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— Positive decreasing solutions of nonlinear differential equations with retarded argument. **89g:34104**

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Domshlak, Yu. I. (*with* Aliev, A. I.) Oscillation properties of solutions of first-order differential equations with retarded argument and with coefficients that do not preserve the sign. (Russian. English and Azerbaijani summaries) **89i:34095**

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Ferreira, José M. Oscillations and nonoscillations caused by delays. **89f:34099**

Georgieva, M. Ya. (*with* Lyubenov, L. T.) Some sufficient conditions for the oscillation of the solutions of a system of differential equations with autoregulating deviation of the argument. (Bulgarian. English and Russian summaries) **89e:34117**

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Gopalsamy, K. Oscillation and nonoscillation in neutral differential equations with variable parameters. **89d:34111**

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Hamedani, G. G. Oscillation theorems for second order functional-differential equations. **89j:34101**

He, Min Uniform boundedness and uniform ultimate boundedness of functional-differential equations with unbounded delay. **89b:34159**

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Hu, Yue Ming Periodic solutions of retarded systems with infinite delay. **89f:34101**

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— (*with* Wang, Zhi Cheng^1) Necessary and sufficient conditions for oscillation of a class of first-order delay differential equations. (Chinese. English summary) **89k:34124**

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— *see also* **Qian, Xiang Zheng, 89k:34124**
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— A mathematical model for the production of human leucocytes. (Chinese. English summary) **89j:92042**
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34K20 Stability theory

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Bashkirov, A. I. On the problem of the stability of an equation of neutral type. (Russian) (*see* **89c:00008**)
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— (*with* Burton, T. A.) Asymptotic stability criteria for delay-differential equations. **89m:34096**
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Bentsman, Joseph (*with* Fakhfakh, Jamel; Hvostov, Harry; Lehman, Bradley) Vibrational stabilization of linear systems with time delay. **89f:34105**
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Bigun, Ya. I. Investigation of stability and averaging in multifrequency systems with delay. (Russian) (*see* **89c:00008**)
Blinov, A. P. The asymptotic stability of systems with delay. **89c:34082**
Borisenko, S. D. Stability of the solutions of functional-differential equations with impulse action. (Russian) (Not in MR)
Brauer, Fred Absolute stability in delay equations. **89b:34166**
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Domoshnitskiĭ, A. I. Sign-constancy of the Cauchy function and the stability of a linear equation of neutral type with respect to the right-hand side. (Russian) (*see* **89c:00009**)
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Khusainov, D. Ya. (*with* Yun′kova, E. A.) Investigation of the stability of linear systems of neutral type by the method of Lyapunov functions. **89e:34126**
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Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of nonlinear continuous time delay systems. **89k:34131**
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— (*with* Ma, Wan Biao) The algebraic criteria for stability of linear autonomous differential systems of neutral type. **89j:34109**
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— Stability of linear systems with time-varying delays. **89k:34132**
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— (*with* Sugie, J.) On the stability region of differential equations with two delays. **89i:34104**
— (*with* Sugie, J.) On the stability region of scalar delay-differential equations. **89i:34105**
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— Some results on equations with unbounded delay. **89b:34170**
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— The algebra principle for retarded-type differential-difference system $\dot{x}(t) = Ax(t) + Bx(t-\tau)$ unconditional stable. **89m:34100**
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Begovich, Ofelia *see* **Fernández, Guillermo; et al., 89e:93137**
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— *see also* **Freedman, H. I., 89e:92035**
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Marcus, C. M. (*with* Westervelt, R. M.) Stability of analog neural networks with delay. **89m:92025**
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Spong, Mark W. A semistate approach to feedback stabilization of neutral delay systems. **89d:93086**
Staffans, Olof J. A direct Lyapunov approach to Volterra integro-differential equations. **89h:45014**
Tu, Bo Xun (*with* Li, Jun Ru) The distribution of the characteristic roots of matrices and its applications to stability theory. (Chinese) **89e:15016**
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34K25 Asymptotic theory

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Lizana, M. Asymptotic expansion for the initial value problem of the sunflower equation. **89h:34069**

Miao, Shu Mei Asymptotic expansions of solutions of initial value problems for singularly perturbed differential-difference equations. (Chinese. English summary) **89e:34130**

Morchało, Jarosław Asymptotic equivalence of functional and ordinary differential equations. **89d:34119**

Norkin, S. B. A singular single-point problem for a nonlinear system with delay. **89k:34133**

Ráb, Miloš Asymptotic formulas for solutions of the differential equation with advanced argument $(x'(t)/r(t))' + q(t)f(x(g(t))) = 0$. **89c:34084**

Simeonov, P. S. (*with* Baĭnov, D. D.) Asymptotic equivalence of ordinary and operator-differential equations. **89d:34120**

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Valeev, K. G. (*with* Azizov, G.) Asymptotic character of special solutions of a system of linear differential equations with retarded argument. (Russian) **89f:34112**

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Cooke, Kenneth (*with* Wiener, Joseph) Neutral differential equations with piecewise constant arguments. (Italian summary) **89e:34107**

— *see also* **Carvalho, L. A. V., 89d:34114**

Ferreira, José M. Oscillations and nonoscillations caused by delays. **89f:34099**

Futák, Ján Asymptotic formulas for solutions of functional-differential equations. (Russian and Czech summaries) **89c:34055**

Grammatikopoulos, M. K. (*with* Ladas, G.; Meimaridou, A.) Oscillation and asymptotic behavior of second order neutral differential equations. **89c:34077**

— (*with* Ladas, G.; Meimaridou, A.) Oscillation and asymptotic behavior of higher order neutral equations with variable coefficients. **89k:34121**

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Grove, E. A. (*with* Ladas, G.; Schultz, S. W.) Oscillations and asymptotic behavior of first-order neutral delay differential equations. **89a:34077**

— (*with* Ladas, G.; Schinas, J.) Sufficient conditions for the oscillation of delay and neutral delay equations. **89m:34092**

Kou, Chun Hai Oscillation and asymptotic behavior of solutions to first-order functional-differential equations. (Chinese. English summary) **89m:34093**

Kulenović, M. R. (*with* Grammatikopoulos, M. K.) Some comparison and oscillation results for first-order differential equations and inequalities with a deviating argument. **89e:34118**

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34K30 Equations in abstract spaces

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Eke, Anthony N. Hyperdissipative operators of nonlinear functional evolution equations. **89e:34131**

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Litsyna, E. M. On the general theory of linear functional-differential equations. **89f:34113**

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— (*with* Vrabie, Ioan I.) A class of strongly nonlinear functional differential equations. **89k:34135**

Papageorgiou, Nikolaos S. On the theory of functional-differential inclusions of neutral type in Banach spaces. **89i:34109**

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Miloslavskiĭ, A. I. Asymptotic behavior of the solutions of abstract integro-differential equations with periodic coefficients. **89j:45007**

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Nakagiri, Shinichi (*with* Yamamoto, Masahiro) Identifiability of linear retarded systems in Banach spaces. **89i:93033**

— Structural properties of functional-differential equations in Banach spaces. **89k:47060**

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Gómez Fernández, Juan Alfredo Optimality conditions for a control problem in systems with controlled interruption. (Spanish. English summary) **89c:34087**

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Ito, Kazufumi (*with* Teglas, Russell) Legendre-tau approximation for functional-differential equations. II. The linear quadratic optimal control problem. **89h:34070**

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Hlaváček, I. (*with* Haslinger, J.; Nečas, Jindřich; Lovíšek, J.) ★ Solution of variational inequalities in mechanics. **89i:73003**

(Jarník, Jiří) *see* **Hlaváček, I.; et al., 89i:73003**

Lovíšek, J. *see* **Hlaváček, I.; et al., 89i:73003**

Lu, Yun Guang *see* **Chen, Gui Qiang,** (Not in MR)

Maslov, V. P. (*with* Nazaĭkinskiĭ, V. E.) ★ Asymptotics of operator and pseudo-differential equations. **89i:58141**

Nazaĭkinskiĭ, V. E. *see* **Maslov, V. P., 89i:58141**

Nečas, Jindřich *see* **Hlaváček, I.; et al., 89i:73003**

Przeworska-Rolewicz, Danuta ★ Algebraic analysis. **89m:00005**

Rybakowski, Krzysztof P. ★ The homotopy index and partial differential equations. **89d:58025**

Temam, Roger ★ Infinite-dimensional dynamical systems in mechanics and physics. **89m:58056**

(Wünsch, V.) *see* **Günther, Paul, 89j:35077**

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Annals of Mathematics Studies *see* **Beals, Richard, 89m:35223**

35–03 Historical (must also be assigned at least one classification number from Section 01)

Komatsu, Hikosaburo Irregularity of linear differential equations and solutions of Gevrey classes. (Chinese summary) **89h:35002**

Leko, T. D. Comment on lattice-gas automata for the solution of partial differential equations. (Not in MR)

Items with secondary classifications in 35–03

Bitsadze, A. V. (*with* Vinogradov, V. S.; Dezin, A. A.; Il'in, V. A.) Partial differential equations. (Russian) **89a:35001**

Bullough, R. K. "The wave" "par excellence", the solitary progressive great wave of equilibrium of the fluid: an early history of the solitary wave. **89d:01037**

Dezin, A. A. *see* **Bitsadze, A. V.; et al., 89a:35001**

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35–04 Explicit machine computation and programs (not the theory of computation or programming)

Brackx, F. (*with* Delanghe, R.; Van hamme, J.) Generalized inverses of elliptic systems of differential operators with constant coefficients and related REDUCE programs for explicit calculations. **89f:35004**

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Ito, Masaaki A REDUCE program for Hirota's bilinear operator and Wronskian operations. **89h:35003**

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Deumens, E. (*with* Warchall, H.) Explicit construction of all spherically symmetric solitary waves for a nonlinear wave equation in multiple dimensions. **89m:35140**

Warchall, H. *see* **Deumens, E., 89m:35140**

35–06 Proceedings, conferences, etc.

(Ballmann, J.) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**

(Brézis, Haïm) *see* **Nonlinear partial differential equations and their applications. Collège de France seminar, 89a:35006** *and* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 89j:35008**

(Cardoso, F.) *see* **Partial differential equations, 89e:35002**

(Cattabriga, L.) *see* **Recent developments in hyperbolic equations, 89i:35001**

(Colombini, Ferruccio) *see* **Recent developments in hyperbolic equations, 89i:35001**

(Dey, S. K.) *see* **Hyperbolic partial differential equations, 89b:35002**

(Dzhuraev, T. D.) *see* **Nonclassical equations in mathematical physics and problems in branching theory, 89j:35006**

(de Figueiredo, D. G.) *see* **Partial differential equations, 89e:35002**

(Ghidaglia, Jean-Michel) *see* **Dissipative nonlinear partial differential equations and dynamical systems, 89a:35004**

(Godunov, S. K.) *see* **Partial differential equations, 89k:35005**

(Iório, Rafael José, Jr.) *see* **Partial differential equations, 89e:35002**

(Jeltsch, Rolf) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**

(Ladyzhenskaya, O. A.) *see* **Boundary value problems of mathematical physics, 89f:35005**

(Lions, J.-L.) *see* **Nonlinear partial differential equations and their applications. Collège de France seminar, 89a:35006** *and* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 89j:35008**

(Lopes, O.) *see* **Partial differential equations, 89e:35002**

(Marino, Antonio) *see* **Nonlinear variational problems, 89k:35004**

(Murthy, M. K. Venkatesha) *see* **Recent developments in hyperbolic equations, 89i:35001** *and* **Nonlinear variational problems, 89k:35004**

(Ni, W.-M.) *see* **Nonlinear diffusion equations and their equilibrium states, 89c:35002** *and* **89c:35003**

(Peletier, L. A.) *see* **Nonlinear diffusion equations and their equilibrium states, 89c:35002** *and* **89c:35003**

(Rassias, John M.) *see* **Mixed type equations, 89a:35005**

(Sabatier, Pierre C.) *see* **Some topics on inverse problems, 89f:35007**

(Salakhitdinov, M. S.) *see* **Nonclassical equations in mathematical physics and problems in branching theory, 89j:35006**

(Satsuma, Junkichi) *see* **Recent developments in soliton theory, 89g:35003**

(Saut, Jean-Claude) *see* **Dissipative nonlinear partial differential equations and dynamical systems, 89a:35004**

(Schaefer, Philip W.) *see* **Maximum principles and eigenvalue problems in partial differential equations, 89e:35001**

(Serrin, J.) *see* **Nonlinear diffusion equations and their equilibrium states, 89c:35002** *and* **89c:35003**

(Sobolev, S. L.) *see* **Partial differential equations, 89k:35005**

(Spagnolo, S.) *see* **Recent developments in hyperbolic equations, 89i:35001**

(Takeno, S.) *see* **Recent developments in soliton theory, 89g:35003**

(Vaillant, Jean Léon) *see* **Operator calculus and wave fronts, 89b:35003**

(Volkodavov, V. F.) *see* **Differential equations and mathematical physics, 89f:35006**

(Vragov, V. N.) *see* **Boundary value problems for nonclassical equations in mathematical physics, 89j:35005**

(Wadati, Miki) *see* **Recent developments in soliton theory, 89g:35003**

(Witten, Matthew) *see* **Hyperbolic partial differential equations, 89b:35002**

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Aachen ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**

Berkeley, CA ★ Nonlinear diffusion equations and their equilibrium states. I. **89c:35002**

— ★ Nonlinear diffusion equations and their equilibrium states. II. **89c:35003**

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Calcul d'opérateurs et fronts d'ondes ★ Calcul d'opérateurs et fronts d'ondes. (French) [Operator calculus and wave fronts] **89b:35003**

Conference:

- **Hyperbolic Equations** ★ Recent developments in hyperbolic equations. **89i:35001**
- **Maximum Principles and Eigenvalue Problems in Partial Differential Equations** ★ Maximum principles and eigenvalue problems in partial differential equations. **89e:35001**
- **Nonlinear Hyperbolic Problems** ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
- **Nonlinear Partial Differential Equations** ★ Nonlinear partial differential equations conference. **89a:35003**
- **Nonlinear Variational Problems** ★ Nonlinear variational problems. Vol. II. **89k:35004**
- **Partial Differential Equations** ★ Journées "Équations aux Dérivées Partielles". (French) [Proceedings of the Conference on Partial Differential Equations] **89g:35002**

Differential equations and mathematical physics ★ Дифференциальные уравнения и математическая физика. (Russian) [Differential equations and mathematical physics] **89f:35006**

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Dynamic structure of the solutions of the Navier-Stokes equation ★ Dynamic structure of the solutions of the Navier-Stokes equation. (Japanese) **89b:35001**

Équations aux dérivées partielles non linéaires dissipatives et systèmes dynamiques ★ Équations aux dérivées partielles non linéaires dissipatives et systèmes dynamiques. (French) [Dissipative nonlinear partial differential equations and dynamical systems] **89a:35004**

Hyperbolic partial differential equations ★ Hyperbolic partial differential equations. V. **89b:35002**
Isola d'Elba ★ Nonlinear variational problems. Vol. II. **89k:35004**
Knoxville, TN ★ Maximum principles and eigenvalue problems in partial differential equations. **89e:35001**
Lecture Notes in Mathematics ★ Partial differential equations. **89e:35002**
Maximum principles and eigenvalue problems in partial differential equations ★ Maximum principles and eigenvalue problems in partial differential equations. **89e:35001**
Microprogram:
  Nonlinear Diffusion Equations and their Equilibrium States ★ Nonlinear diffusion equations and their equilibrium states. I. **89c:35002**
  — ★ Nonlinear diffusion equations and their equilibrium states. II. **89c:35003**
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Nonclassical equations in mathematical physics and problems in branching theory ★ Неклассические уравнения математической физики и задачи теории ветвления. (Russian) [Nonclassical equations in mathematical physics and problems in branching theory] **89j:35006**
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— ★ Nonlinear diffusion equations and their equilibrium states. II. **89c:35003**
Nonlinear evolutionary equations and partial differential equations ★ Hisenkei hatten noteishiki to henbibun hoteishiki. (Japanese) [Nonlinear evolutionary equations and partial differential equations] **89c:35004**
Nonlinear hyperbolic equations—theory, computation methods, and applications ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
Nonlinear partial differential equations and their applications. Collège de France seminar ★ Nonlinear partial differential equations and their applications. Collège de France seminar. Vol. VIII. **89a:35006**
— ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. IX. **89j:35008**
Nonlinear variational problems ★ Nonlinear variational problems. Vol. II. **89k:35004**
Operator calculus and wave fronts ★ Calcul d'opérateurs et fronts d'ondes. (French) [Operator calculus and wave fronts] **89b:35003**
Paris ★ Nonlinear partial differential equations and their applications. Collège de France seminar. Vol. VIII. **89a:35006**
— ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. IX. **89j:35008**
Partial differential equations ★ Дифференциальные уравнения с частными производными. (Russian) [Partial differential equations] **89k:35005**
— ★ Partial differential equations. **89e:35002**
Pisa ★ Recent developments in hyperbolic equations. **89i:35001**
Proceedings:
  Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". (French) [Proceedings of the Conference on Partial Differential Equations] **89g:35002**
Recent developments in hyperbolic equations ★ Recent developments in hyperbolic equations. **89i:35001**
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Rio de Janeiro ★ Partial differential equations. **89e:35002**
Saint Jean de Monts ★ Journées "Équations aux Dérivées Partielles". (French) [Proceedings of the Conference on Partial Differential Equations] **89g:35002**
Salt Lake City, UT ★ Nonlinear partial differential equations conference. **89a:35003**
School:
  Partial Differential Equations ★ Partial differential equations. **89e:35002**
Seminar:
  Applied mathematics ★ Nonlinear partial differential equations and their applications. Collège de France seminar. Vol. VIII. **89a:35006**
  — ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. IX. **89j:35008**
Some topics on inverse problems ★ Some topics on inverse problems. **89f:35007**
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  Dynamic Structure of the Solutions of the Navier-Stokes Equation ★ Dynamic structure of the solutions of the Navier-Stokes equation. (Japanese) **89b:35001**
  Nonlinear Evolutionary Equations and Partial Differential Equations ★ Hisenkei hatten noteishiki to henbibun hoteishiki. (Japanese) [Nonlinear evolutionary equations and partial differential equations] **89c:35004**
Workshop:
  Interdisciplinary Study of Inverse Problems ★ Some topics on inverse problems. **89f:35007**

Items with secondary classifications in 35–06

(Hildebrandt, Stefan) *see* **Calculus of variations and partial differential equations, 89f:00022** *and* **Partial differential equations and calculus of variations, 89g:00010**
(Kinderlehrer, David) *see* **Calculus of variations and partial differential equations, 89f:00022**
(Korolyuk, V. S.) *see* **Asymptotic methods in mathematical physics, 89g:00006**
(Leis, R.) *see* **Partial differential equations and calculus of variations, 89g:00010**
(Miranda, Mario) *see* **Calculus of variations and partial differential equations, 89f:00022**
(Nakhushev, A. M.) *see* **Nonlocal problems for partial differential equations and their applications to modeling and automation of the design of complex systems, 89f:00012**
(Orlov, Yu. F.) *see* **Asymptotic methods. Problems in mechanics, 89m:76001**
(Panchenkov, A. N.) *see* **Asymptotic methods. Problems in mechanics, 89m:76001**

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Asymptotic methods in mathematical physics ★ Асимптотические методы математической физики. (Russian) [Asymptotic methods in mathematical physics] **89g:00006**
Asymptotic methods. Problems in mechanics ★ Асимптотические методы. Задачи механики. (Russian) [Asymptotic methods. Problems in mechanics] **89m:76001**
Calculus of variations and partial differential equations ★ Calculus of variations and partial differential equations. **89f:00022**
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  Calculus of Variations and Partial Differential Equations ★ Calculus of variations and partial differential equations. **89f:00022**
Developments of algebraic analysis ★ Developments of algebraic analysis. **89a:58002**
Lecture Notes in Mathematics ★ Calculus of variations and partial differential equations. **89f:00022**
— ★ Partial differential equations and calculus of variations. **89g:00010**
Mathematical analysis of fluid and plasma dynamics ★ Ryutai to purazuma no shogensho no kaiseki. [Mathematical analysis of fluid and plasma dynamics. I] **89g:76004**
Nonlocal problems for partial differential equations and their applications to modeling and automation of the design of complex systems ★ Нелокальные задачи для уравнений в частных производных и их приложения к моделированию и автоматизации проектирования сложных систем. (Russian) [Nonlocal problems for partial differential equations and their applications to modeling and automation of the design of complex systems] **89f:00012**
Partial differential equations and calculus of variations ★ Partial differential equations and calculus of variations. **89g:00010**
Rosario ★ II Seminario sobre el Problema de Stefan y sus Aplicaciones. Vol. 2. (Spanish) [Second Seminar on the Stefan Problem and its Applications. Vol. 2] **89j:00025**
Seminar:
  Stefan Problem and its Applications ★ II Seminario sobre el Problema de Stefan y sus Aplicaciones. Vol. 2. (Spanish) [Second Seminar on the Stefan Problem and its Applications. Vol. 2] **89j:00025**
Symposium:
  Developments of Algebraic Analysis ★ Developments of algebraic analysis. **89a:58002**
  Mathematical Analysis of Fluid and Plasma Dynamics ★ Ryutai to purazuma no shogensho no kaiseki. [Mathematical analysis of fluid and plasma dynamics. I] **89g:76004**
Trento ★ Calculus of variations and partial differential equations. **89f:00022**

35Axx General theory

Mizohata, Sigeru ★ On the Cauchy problem. **89a:35007**

Items with secondary classifications in 35Axx

Galaktionov, V. A. *see* **Samarskiĭ, A. A.; et al., 89a:35002**
Ikawa, M. *see* **Mizohata, Sigeru; et al., 89f:35003**
Kurdyumov, S. P. *see* **Samarskiĭ, A. A.; et al., 89a:35002**
Mikhaĭlov, A. P. *see* **Samarskiĭ, A. A.; et al., 89a:35002**
Mizohata, Sigeru (*with* Ohya, Yujiro; Ikawa, M.) Comments on the development of hyperbolic analysis. **89f:35003**
Ohya, Yujiro *see* **Mizohata, Sigeru; et al., 89f:35003**
Samarskiĭ, A. A. (*with* Galaktionov, V. A.; Kurdyumov, S. P.; Mikhaĭlov, A. P.) ★ Режимы с обострением в задачах для квазилинейных параболических уравнений. (Russian) [Peaking modes in problems for quasilinear parabolic equations] **89a:35002**

35A05 General existence and uniqueness theorems

Cinquini, Silvio On two existence theorems for the solution of the Cauchy problem for systems of partial differential equations. (Italian) **89b:35004**
Fel′dman, M. A. *see* **Samborskiĭ, S. N., 89h:35005**
Hamada, Yûsaku (*with* Takeuchi, Akira) Le domaine d'existence et le prolongement analytique des solutions des problèmes de Goursat et de Cauchy à données singulières. (English summary) [Domain of existence and analytic continuation of solutions of Goursat and Cauchy problems with singular data] **89m:35003**
Igari, Katsuju Uniqueness in the characteristic Cauchy problem under a convexity condition. **89h:35004**
Samborskiĭ, S. N. (*with* Fel′dman, M. A.) Connected systems of partial differential equations (initial-boundary value problems and propagation of singularities). (Russian) **89h:35005**
Takeuchi, Akira *see* **Hamada, Yûsaku, 89m:35003**
Tervo, J. On solvability of linear partial differential equations in local spaces $\mathscr{B}_{p,k}^{\mathrm{loc}}(G)$. (German and Russian summaries) **89h:35006**
Wada, Ryoko A uniqueness set for linear partial differential operators of the second order. **89k:35006**

Items with secondary classifications in 35A05

Bassanelli, Giovanni On a characteristic Cauchy problem. (Italian summary) **89b:35155**
Bergamasco, Adalberto P. (*with* Cordaro, P.; Hounie, J.) Global properties of a class of vector fields in the plane. **89h:58175**
Cordaro, P. *see* **Bergamasco, Adalberto P.; et al., 89h:58175**
Gourdin, Daniel Theorem of uniqueness for the Cauchy problem related to hyperbolic systems without Levi condition. **89h:35188**
Hasegawa, Yukiko Some remarks on the C^∞-Goursat problem. **89d:35028**
Hounie, J. *see* **Bergamasco, Adalberto P.; et al., 89h:58175**
Jacobowitz, Howard ★ Homogeneous solvability and CR structures. **89f:35154**
Kamynin, L. I. (*with* Khimchenko, B. N.) An isotropic uniqueness theorem for the solution to the Cauchy problem for a second-order parabolic equation. **89e:35063**
Khimchenko, B. N. *see* **Kamynin, L. I., 89e:35063**
Lerner, Nicolas Uniqueness for an ill-posed problem. **89a:35126**
Levy-Bruhl, Pierre Remarques sur la résolubilité d'équations différentielles, à propos de résultats de R. L. Lipsman. [Remarks on the solvability of differential equations, in light of results of R. L. Lipsman] **89g:22015**
Lion, Gérard Résolubilité d'équations différentielles et représentations induites. [Solvability of differential equations and induced representations] **89a:22017**
Yanov, S. I. Solvability of general mixed problems for a class of systems not of Cauchy-Kovalevskaya type. (Russian) **89h:35076**

35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Rodino, Luigi Local solvability in Gevrey classes. **89d:35001**
Saint Raymond, Xavier Contribution to the study of the uniqueness in the analytic linear Cauchy problem. **89g:35004**
Zampieri, Giuseppe Local existence at the boundary of analytic solutions of P.D.E. with analytic coefficients. (Italian summary) **89j:35009**

Items with secondary classifications in 35A07

Buzar, Sh. (*with* Kuleshov, A. A.) Local solvability of pseudodifferential equations of constant strength. I. **89h:35361a**
— (*with* Kuleshov, A. A.) Local solvability of pseudodifferential equations of constant strength. II. **89h:35361b**
Colombini, Ferruccio (*with* Jannelli, Enrico; Spagnolo, S.) Nonuniqueness in hyperbolic Cauchy problems. **89e:35086**
Jannelli, Enrico *see* **Colombini, Ferruccio; et al., 89e:35086**
Kharibegashvili, S. S. Solvability of a boundary value problem for second-order hyperbolic equations. (Russian. English and Georgian summaries) **89h:35181**
Kuleshov, A. A. *see* **Buzar, Sh., 89h:35361a** *and* **89h:35361b**
Lerner, Nicolas Sufficiency of condition (Ψ) for local solvability in two dimensions. **89e:35150**
Madi, Nour-Saïd Problème de Goursat holomorphe à variables fuchsiennes. (English summary) [A holomorphic Goursat problem with Fuchsian variables] **89a:35012**
Ninomiya, Haruki On a function theoretic character of two complexvalued functions making the Jacobian vanish. **89h:35008**
Popelyukhin, A. S. Necessary conditions for the local solvability of a class of pseudodifferential operators with double involutive characteristics. **89f:35225**
Spagnolo, S. Counterexamples to the uniqueness or the local solvability for hyperbolic equations. **89e:35087**
— *see also* **Colombini, Ferruccio; et al., 89e:35086**
Tahara, Hidetoshi Solvability in distributions for a class of singular differential operators. I. **89k:35151**

35A08 Fundamental solutions

Kulikov, A. A. Fundamental solutions of differential equations containing a Bessel operator. **89e:35003**

Items with secondary classifications in 35A08

Ortner, N. Die Fundamentallösung des Timoshenko- und des Boussinesq-Operators. (English and Russian summaries) [The fundamental solution of the Timoshenko and the Boussinesq operator] **89k:35227**

35A10 Cauchy-Kowalewski theorems

Begehr, H. Der Satz von Cauchy-Kowalewski für hyperanalytische Funktionen. (English and Russian summaries) [The theorem of Cauchy-Kovalevskaya for hyperanalytic functions] **89a:35008**
Reissig, M. Ein abstraktes nichtlineares Cauchy-Kowalewskaja-Theorem mit singulären Koeffizienten. II. (English and Russian summaries) [An abstract nonlinear Cauchy-Kovalevskaya theorem with singular coefficients. II] **89j:35010**
Tomter, Per Existence and uniqueness for a class of Cauchy problems with characteristic initial manifolds. **89f:35008**

Items with secondary classifications in 35A10

Sedenko, V. I. Solvability of an initial-boundary value problem for flows of an ideal fluid, part of whose boundary is free. (Russian) **89e:76033**
Spagnolo, S. Analytic and Gevrey well-posedness of the Cauchy problem for second order weakly hyperbolic equations with coefficients irregular in time. **89a:35128**

35A15 Variational methods

Horová, Ivana On the variational principles for partial differential equations. **89m:35004**

Items with secondary classifications in 35A15

Filippov, V. M. ★ Вариационные принципы для непотенциальных операторов. (Russian) [Variational principles for nonpotential operators] **89c:47078**

35A20 Analytic methods, singularities

Boev, T. B. Propagation and nonpropagation of singularities for a class of semilinear P. D. equations. **89k:35007**
Cicognani, M. (*with* Corli, A.) Propagation of singularities for operators with constant coefficient hyperbolic-elliptic principal part. **89f:35009**
Corli, A. *see* **Cicognani, M., 89f:35009**
David, Florin (*with* Williams, Mark) Singularities of solutions to semilinear boundary value problems. **89a:35009**
Esser, P. Second microlocalization and propagation theorems for the wave front sets. (German and Russian summaries) **89d:35002**
Gudmundsdottir, Gudrun A regularity theorem for differential equations of constant strength. **89d:35003**
Ishii, Tan On propagation of regular singularities for solutions of nonlinear partial differential equations. I. **89j:35011**
Kiro, Shmuel On the global existence of holomorphic solutions and the semiglobal existence of real analytic solutions of linear partial differential equations. **89h:35007**
Lascar, B. Propagation des singularités Gevrey pour des opérateurs hyperboliques. [Propagation of Gevrey singularities for hyperbolic operators] **89a:35010**
Laubin, P. Propagation du second front analytique pour les opérateurs hyperboliques à coefficients constants. [Propagation of the second analytic wave front for hyperbolic operators with constant coefficients] **89k:35008**
Leichtnam, Éric Construction de solutions singulières pour des équations aux dérivées partielles non linéaires. [Construction of singular solutions for nonlinear partial differential equations] **89a:35011**
— Sur le problème de Cauchy ramifié. (English summary) [About the ramified Cauchy problem] **89f:35010**
Liess, Otto Boundary regularity for one-sided solutions of linear partial differential equations with analytic coefficients. **89f:35011**
Madi, Nour-Saïd Problème de Goursat holomorphe à variables fuchsiennes. (English summary) [A holomorphic Goursat problem with Fuchsian variables] **89a:35012**
— Sur certains problèmes de Goursat fuchsiens à données initiales sur les hypersurfaces caractéristiques. (English summary) [On certain Fuchsian Goursat problems with initial data on the characteristic hypersurfaces] **89k:35009**
Melrose, Richard B. (*with* Ritter, Niles) Interaction of progressing waves for semilinear wave equations. II. **89b:35005**
Ninomiya, Haruki On a function theoretic character of two complexvalued functions making the Jacobian vanish. **89h:35008**
— The explicit formula of a solution to the Mizohata-type equation. **89g:35005**
Odinokov, O. V. Well-posedness of the Cauchy problem for operators with smooth symbols. **89m:35005**
Ōuchi, Sunao Solutions with singularities on a surface of linear partial differential equations. **89m:35006**
— Vanishing of singularities of solutions and an integral representation of singular solutions of linear partial differential equations. **89m:35007**
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Reed, Michael C. *see* **Rauch, J., 89d:35004**
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Sakurai, Tsutomu On Gevrey singularities of solutions of equations with nonsymplectic characteristics. **89m:35009**
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Wagschal, Claude Problème de Cauchy ramifié pour une classe d'opérateurs à caractéristiques tangentes. I. [The ramified Cauchy problem for a class of operators with tangent characteristics. I] **89h:35011**
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Bernardi, Enrico Propagation of singularities for hyperbolic operators with multiple involutive characteristics. **89g:58202**
Betina, Kamel Caractérisation des connexions linéaires singulières régulières le long d'un diviseur à croisements normaux dans le cas de plusieurs variables. (English summary) [Characterization of singular linear connections regular along normal crossings in the several variables case] **89g:58190**
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35A22 Transform methods

Pukhnachev, V. V. Transformations of equivalence and the hidden symmetry of evolution equations. (Russian) **89h:35012**

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35A25 Other special methods

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35A27 Sheaf-theoretic and microlocal methods; methods of homological algebra [see also 32C38, 58G07]

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Lascar, B. Propagation des singularités Gevrey pour des problèmes aux limites hyperboliques. [Propagation of Gevrey singularities for hyperbolic boundary limit problems] **89c:35101**

Laubin, P. Étude 2-microlocale de la diffraction. (English summary) [2-microlocal study of diffraction] **89b:58208**

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Liess, Otto (*with* Rodino, Luigi) Fourier integral operators and inhomogeneous Gevrey classes. **89m:35224**

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Wakabayashi, Seiichiro Generalized Hamilton flows and singularities of solutions of the hyperbolic Cauchy problem. **89c:35102**

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35A30 Geometric theory, characteristics, transformations

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Pommaret, J.-F. Thermodynamique et théorie des groupes. (English summary) [Thermodynamics and group theory] **89m:35015**

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35B20 Perturbations

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35B25 Singular perturbations

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Fila, Marek (*with* Filo, Ján) Stabilization of solutions of certain one-dimensional degenerate diffusion equations. (Russian summary) **89m:35105**
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35B40 Asymptotic behavior of solutions

Alikakos, Nicholas D. (*with* Bates, Peter W.) An invariance principle for a class of monotone systems and application to degenerate parabolic equations. **89h:35040**
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— Solvability of a boundary value problem for hyperbolic equations in nonclassical domains. **89k:35129**
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35B60 Continuation and prolongation [see also 58A15, 58A17, 58Hxx]

Barceló, B. (*with* Kenig, C. E.; Ruiz, Alberto; Sogge, C. D.) Weighted Sobolev inequalities and unique continuation for the Laplacian plus lower order terms. **89h:35048**
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35B65 Smoothness of solutions

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Babuška, I. (*with* Guo, Ben Qi) Regularity of the solution of elliptic problems with piecewise analytic data. I. Boundary value problems for linear elliptic equation of second order. **89a:35039**

Biroli, M. A Green function method to obtain an estimate on the modulus of continuity in a parabolic problem. **89h:35049**

Chen, Ya Zhe Hölder continuity of the gradient of solutions of nonlinear degenerate parabolic systems. **89m:35036**

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Koshelev, A. I. Smoothness of solutions of some problems with hysteresis. (Russian) (*see* **89j:00031**)

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Liess, Otto Regularity of solutions of Cauchy problems with smooth Cauchy data. **89m:35037**

Lindqvist, P. (*with* Martio, O.) Regularity and polar sets for supersolutions of certain degenerate elliptic equations. **89h:35051**

Malý, Jan (*with* Stará, J.; John, Oldřich) A note on the regularity of autonomous quasilinear elliptic and parabolic systems. **89h:35052**

Manfredi, Juan J. (*with* Weitsman, Allen) On the Fatou theorem for p-harmonic functions. **89h:35053**

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Angenent, S. B. Local existence and regularity for a class of degenerate parabolic equations. **89e:35072**

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di Benedetto, E. On the local behaviour of solutions of degenerate parabolic equations with measurable coefficients. **89a:35118**

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Campanato, S. $L^{2,\lambda}$ theory and nonlinear parabolic systems. **89k:35106**

— Elliptic systems with nonlinearity q greater or equal to two. Regularity of the solution of the Dirichlet problem. (Italian summary) **89c:35056**

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Grisvard, Pierre Le problème de Dirichlet dans l'espace W_p^1. (English summary) [The Dirichlet problem in the space W_p^1] **89c:35031**

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Heywood, John G. Epochs of regularity for weak solutions of the Navier-Stokes equations in unbounded domains. **89f:35169**

Huang, Qing Bo Hölder estimates of solutions of a class of singular nonlinear parabolic equations. (Chinese. English summary) **89j:35075**

Koshelev, A. I. Smoothness of the solutions of quasilinear elliptic systems with nondifferentiable coefficients. **89k:35081**

Ladyzhenskaya, O. A. Finding minimal global attractors for the Navier-Stokes equations and other partial differential equations. (Russian) **89m:58031**

Leichtnam, Éric Régularité microlocale pour des problèmes de Dirichlet non linéaires non caractéristiques d'ordre deux à bord peu régulier. (English summary) [Microlocal regularity for second-order noncharacteristic nonlinear Dirichlet problems with nonsmooth boundary] **89d:35006**

Liao, Liang Yuan Global regularity of solutions of elliptic Monge-Ampère equations. **89i:35057**

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Liess, Otto Boundary regularity for one-sided solutions of linear partial differential equations with analytic coefficients. **89f:35011**

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Miyakawa, Tetsuro (*with* Sohr, Hermann) On energy inequality, smoothness and large time behavior in L^2 for weak solutions of the Navier-Stokes equations in exterior domains. **89m:35182**

Moulay, M.-S. (*with* Moussaoui, M.-A.) Régularité des solutions de l'équation des milieux poreux en une dimension d'espace. [Regularity of the solutions of the porous medium equation in one space dimension] **89h:76038**

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Lepin, L. A. Countable spectrum of the eigenfunctions of the nonlinear heat equation with distributed parameters. **89g:35021**

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DiPerna, Ronald Nonlinear conservative system. **89a:35133**

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Berglez, P. ★ Zur Lösungsdarstellung bei gewissen formal hyperbolischen Differentialgleichungen durch Integro-Differentialoperatoren. (German) [On the representation of solutions, by integro-differential operators, for certain formally hyperbolic differential equations] **89a:35042**
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Ryabtsev, I. I. An algorithm for the exact solution of a nonhomogeneous telegraph equation with delay. (Russian) (*see* **89c:00005**)
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Bluman, G. W. (*with* Kumei, Sukeyuki) Exact solutions for wave equations of two-layered media with smooth transition. **89g:35061**
Burchuladze, T. V. Dynamic problems in the nonclassical theory of thermoelasticity that are solvable in closed form. (Russian) **89b:73037**
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35C10 Series solutions, expansion theorems

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Bondarenko, B. A. Methods for constructing basis systems of polynomial solutions of partial differential equations. (Russian) (Not in MR)
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Fichera, Gaetano Some remarks on potential theory. (Italian. English summary) **89m:31006**

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35C15 Integral representations

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35C20 Asymptotic expansions

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Castro, Rafael (*with* Díaz Reyes, Gilberto) Asymptotic solution of the problem of waves on the surface of a plane layer of stratified liquid with rotation. (Spanish. English summary) **89a:76052**

Chen, Qing Yi (*with* Zou, Feng Wu) Relative oscillation on an active Josephson junction line. (Chinese. English summary) **89m:35020**

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Chernyatin, V. A. On the problem of the existence of a solution to a mixed problem for the one-dimensional wave equation. (Russian) **89a:35048**

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— Solving the nonlinear equations of physics. **89k:65153**

— An adaptation of the decomposition method for asymptotic solutions. **89j:34085**

— Application of decomposition to hyperbolic, parabolic, and elliptic partial differential equations. **89k:35010**

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Barannik, L. F. (*with* Lagno, V. I.; Fushchich, V. I.) Subalgebras of the Poincaré algebra AP(2, 3) and the symmetry reduction of the nonlinear ultrahyperbolic d'Alembert equation. I. **89k:58300**

Benharbit, A. *see* **Obaid, S. A., 89f:76020**

Boffi, V. C. (*with* Spiga, G.) Spatial effects in the study of nonlinear evolution problems of particle transport theory. **89i:82031**

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Čanak, Miloš Der Zusammenhang zwischen der Randwertaufgabe von Riemann und einem Problem der mathematischen Musiktheorie. (Serbo-Croatian summary) [The connection between the Riemann boundary value problem and a problem of mathematical music theory] **89h:35172**

Dezin, A. A. The two-dimensional Abel transform and applications. (Russian) (*see* **89j:00030**)

Duston, Mark D. (*with* Verma, Ghasi R.; Wood, David H.; Gilbert, Robert P.) Direct generation of normal modes by transmutation theory. **89b:76019**

Ezhov, A. M. Solution of the characteristic problem for the telegraph equation by the Volterra method. (Russian) (*see* **89f:35006**)

Fisher, Michael Ellis *see* **Randeria, M., 89m:35012**

Fushchich, V. I. (*with* Zhdanov, R. Z.) A generalization of the method of the separation of variables for linear systems of differential equations. (Russian) **89f:35014**

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Iwasaki, Katsunori Riemann function of harmonic equation and Appell's F_4. **89d:33023**

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Kirpichnikova, N. Ya. (*with* Kiselev, A. P.) Polarization-spectral anomalies of surface waves in an almost layered elastic half space. (Russian) **89a:73017**

Kiselev, A. P. *see* **Kirpichnikova, N. Ya., 89a:73017**

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Millar, R. F. Application of the Schwarz function to boundary problems for Laplace's equation. **89c:35032**

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Nôno, Kiyoharu (*with* Inenaga, Yoshikazu) On the Clifford linearization of Laplacian. **89h:35068**

Obaid, S. A. (*with* Benharbit, A.) Stream functions of certain rotating cylinders. **89f:76020**

Ortner, N. Methods of construction of fundamental solutions of decomposable linear differential operators (invited contribution). **89m:35041**

Osada, Józef Classical solutions of the two-phase Stefan-type problem. **89m:35220**

Potēmin, G. V. Algebro-geometric construction of self-similar solutions of the Whitham equations. (Russian) **89m:35199**

Rabitz, Herschel *see* **Shi, Shenghua, 89a:35016**

Randeria, M. (*with* Fisher, Michael Ellis) Multisingularity and scaling in partial differential approximants. I. **89m:35012**

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Szmydt, Zofia (*with* Ziemian, Bogdan) Multidimensional Mellin transformation and partial differential operators with regular singularity. **89f:35012**

Verma, Ghasi R. *see* **Duston, Mark D.; et al., 89b:76019**

Wood, David H. *see* **Duston, Mark D.; et al., 89b:76019**

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Zhuravkov, M. A. *see* **Martynenko, M. D.; et al., 89m:73034**

Ziemian, Bogdan *see* **Szmydt, Zofia, 89f:35012**

35Dxx Generalized solutions

Nohel, John A. (*with* Rogers, R. C.; Tzavaras, A. E.) Weak solutions for a nonlinear system in viscoelasticity. **89h:35063**

Rogers, R. C. *see* **Nohel, John A.; et al., 89h:35063**

Tzavaras, A. E. *see* **Nohel, John A.; et al., 89h:35063**

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Ôtani, Mitsuharu Existence and nonexistence of nontrivial solutions of some nonlinear degenerate elliptic equations. **89c:35067**

Rosinger, Elemér E. ★ Generalized solutions of nonlinear partial differential equations. **89g:35001**

35D05 Existence of generalized solutions

Lamb, Wilson On the solution of certain distributional boundary value problems. **89f:35045**

Paek, Mun Chol Weak solution of the connected problem for partial differential equation of seepage of the third order. (Korean. English summary) **89a:35050**

Wang, Wei^1 Generalized solutions to a class of complex third-order linear elliptic equations. (Chinese. English summary) **89m:35040**

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Boziev, O. L. Weak solutions of a hyperbolic equation. (Russian. English and Georgian summaries) **89h:35179**

Bui ta Long A constant in an embedding theorem. (Russian) **89b:46045**

Cannon, John R. (*with* Yin, Hong Ming) On the existence of the weak solution and the regularity of the free boundary to a one-dimensional two-phase degenerate Stefan problem. **89f:35217**

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Demidenko, G. V. The Cauchy problem for equations and systems of Sobolev type. (Russian) **89b:35136**

Ferreira, J. Campos Sur une définition de la valeur d'une distribution en un point et son application au problème de Cauchy. [On a definition of the value of a distribution at a point and its application to the Cauchy problem] **89a:46085**

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Liang, Xi Ting Integrability properties of generalized solutions to systems of quasilinear second-order elliptic equations. (Chinese. English summary) **89c:35061**

Lopushanskaya, G. P. Solution of the first boundary value problem for a second-order parabolic equation in a space of generalized functions. (Russian) **89h:35143**

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Neustupa, Jiří Global weak solvability of a regularized system of the Navier-Stokes equations for compressible fluid. (Russian and Czech summaries) **89h:35268**

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Schoen, Richard M. The existence of weak solutions with prescribed singular behavior for a conformally invariant scalar equation. **89e:58119**

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Turo, Jan Generalized solutions of the Cauchy problem for a nonlinear functional partial differential equation. (German and Russian summaries) **89m:35210**

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Zhitarashu, N. V. L_2-theory of the generalized solutions of general linear model parabolic boundary value problems. **89c:35075**

35D10 Regularity of generalized solutions

Ding, Shi Jin Regularity of weak solutions of systems of nonlinear equations with singular coefficients. (Chinese. English summary) **89i:35032**

Huang, Qing Bo *see* **Yang, Shi Xin, 89h:35065**

Lemmert, Roland A short proof of Weyl's lemma. **89h:35064**

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Yang, Shi Xin (*with* Huang, Qing Bo) Local regularity of weak solutions for degenerate elliptic systems with diagonal form. (Chinese. English summary) **89h:35065**

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Anzellotti, Gabriele (*with* Giaquinta, Mariano) Convex functionals and partial regularity. **89f:49013**

Biroli, M. (*with* Marchi, S.) Remark on: "Wiener estimates at boundary points for degenerate elliptic equations" [Boll. Un. Mat. Ital. B (6) **5** (1986), no. 3, 689–706; MR 88g:35090]. **89b:35058**

Chichoyan, S. F. Smoothness of generalized solutions of the Dirichlet problem for the Navier-Stokes equation in nonsmooth two-dimensional domains. (Russian) **89d:35139**

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Hicks, D. *see* **Kuttler, Kenneth, 89f:35170**

Kadyrov, R. R. Estimates for the modulus of the generalized solution of the Dirichlet problem for higher-order elliptic equations in a neighborhood of a boundary point. (Russian) **89d:35050**

Kuttler, Kenneth (*with* Hicks, D.) Weak solutions of initial-boundary value problems for a class of nonlinear viscoelastic equations. **89f:35170**

— Regularity of weak solutions of some nonlinear conservation laws. **89i:35095**

Leipholz, H. H. E. On the application of the modal approach to plates with a nonselfadjoint control. **89d:73018**

Marchi, S. *see* **Biroli, M., 89b:35058**

Nourrigat, J. Systèmes sous-elliptiques. [Subelliptic systems] **89d:35034**

Sakurai, Tsutomu Gevrey hypoellipticity for operators with nonsymplectic characteristics. **89f:35049**

Saut, Jean-Claude *see* **Constantin, Peter, 89d:35150**

Smoczyński, Piotr A "weak equals strong" theorem for a first-order equation. **89f:35047**

Struwe, Michael On partial regularity results for the Navier-Stokes equations. **89h:35270**

Zlotnik, A. A. *see* **Amosov, A. A., 89k:35193**

35D99 None of the above, but in this section

Items with secondary classifications in 35D99

Akhmedov, Sh. A. Uniqueness of the continuation of generalized solutions of infinite order defined in a neighborhood of two characteristic subspaces. (Russian. Tajiki summary) **89k:35050**

Bulychëv, V. A. (*with* Frolov, F. F.) Boundary value problems for generalized differential equations. **89h:35360**

Frolov, F. F. *see* **Bulychëv, V. A., 89h:35360**

Guo, Bo Ling *see* **Zhou, Yu Lin, 89h:35323**

Kiser, Terry L. Distributional solutions to a generalized wave equation for gravity waves on deep water. **89a:35129**

Korolëv, Alekseĭ Gennad′evich The boundedness of generalized solutions of elliptic equations with nonpower nonlinearities. (Russian) **89k:35080**

Marcati, Pierangelo (*with* Milani, Albert J.; Secchi, Paolo) Singular convergence of weak solutions for a quasilinear nonhomogeneous hyperbolic system. **89f:35127**

Milani, Albert J. *see* **Marcati, Pierangelo; et al., 89f:35127**

Rykov, Yu. G. On the nature of the propagation of perturbations in the Cauchy problem for first-order quasilinear equations. (Russian) **89c:35027**

Secchi, Paolo *see* **Marcati, Pierangelo; et al., 89f:35127**

Zhou, Yu Lin (*with* Guo, Bo Ling) Weak solution of system of ferromagnetic chain with several variables. **89h:35323**

35Exx Equations and systems with constant coefficients [see also 35N05]

35E05 Fundamental solutions

Diao, Yuan Sheng Fundamental solutions of systems of second-order elliptic partial differential equations with constant coefficients and their applications. (Chinese. English summary) **89g:35025**

Mosolov, B. G. Solution of the polyvector Lamé-Helmholtz equation. (Russian) **89c:35026**

Ortner, N. Methods of construction of fundamental solutions of decomposable linear differential operators (invited contribution). **89m:35041**

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Kimura, Masahiro (*with* Otsuka, Ken'ichi) Some remarks on the positivity of fundamental solutions for certain parabolic equations with constant coefficients. **89e:35067**

Otsuka, Ken'ichi *see* **Kimura, Masahiro, 89e:35067**

Trione, Susana Elena On the elementary retarded, ultrahyperbolic solution of the Klein-Gordon operator, iterated k times. **89k:35124**

Tuckwell, Henry C. Use of Green's function matrices for systems of diffusion equations. **89f:35101**

35E15 Initial value problems

Hasegawa, Yukiko Some remarks on the C^∞-Goursat problem. **89d:35028**

35E20 General theory

Akhmedov, Sh. A. Uniqueness of the continuation of generalized solutions of infinite order defined in a neighborhood of two characteristic subspaces. (Russian. Tajiki summary)

89k:35050

Charrière, H. Existence de bases opérateurs pour l'espace des solutions des équations aux dérivées partielles linéaires à coefficients constants. I. [Existence of operator bases for the space of solutions of linear partial differential equations with constant coefficients. I] **89f:35046**

Karachik, V. V. Some problems for linear differential equations with constant coefficients. (Russian) **89h:35067**

Liess, Otto Localization and propagation of analytic singularities for operators with constant coefficients. **89j:35042**

— The edge-of-the-wedge theorem for systems of constant coefficient partial differential operators. I, II. **89i:35033**

— On the influence of lower order terms for propagation of analytic singularities for operators with constant coefficients. **89j:35041**

Malamud, M. M. An estimate for differential operators in uniform norm, and coercivity in S. L. Sobolev spaces. **89b:35017**

Meise, Reinhold (*with* Taylor, B. Alan; Vogt, D.) Caractérisation des opérateurs linéaires aux dérivées partielles avec coefficients constants sur $\mathscr{E}(\mathbf{R}^N)$ admettant un inverse à droite qui est linéaire et continu. (English summary) [Characterization of linear partial differential operators with constant coefficients on $\mathscr{E}(\mathbf{R}^N)$ which admit a continuous linear right inverse] **89m:35042**

Savchenko, G. B. L_2-well-posedness of some boundary value problem for systems of linear differential equations. (Russian) **89a:35051**

Taylor, B. Alan *see* **Meise, Reinhold; et al., 89m:35042**

Vogt, D. *see* **Meise, Reinhold; et al., 89m:35042**

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Bassotti Rizza, Lucilla An extension of the theory of linear operators invariant with respect to a congruence group. (Italian. English summary) **89h:47041**

Ehrenpreis, Leon Reflection, removable singularities, and approximation for partial differential equations. II. **89c:35005**

Kazaryan, G. G. (*with* Markaryan, V. N.) Estimates for the solutions of nonhypoelliptic equations with a given carrier of hypoellipticity. (Russian. English and Armenian summaries) **89h:35079**

Krob, D. Centralisateurs d'opérateurs pseudodifferentiels formels a coefficients constants. [Centralizers of formal pseudodifferential operators with constant coefficients] **89a:12015**

Markaryan, V. N. *see* **Kazaryan, G. G., 89h:35079**

35E99 None of the above, but in this section

Carvalho e Silva, Jaime A sufficient condition for the well-posedness of a Goursat problem. **89k:35051**

Inenaga, Yoshikazu *see* **Nôno, Kiyoharu, 89h:35068**

Kaneko, Akira On Hartogs type continuation theorem for regular solutions of linear partial differential equations with constant coefficients. **89m:35043**

Nôno, Kiyoharu (*with* Inenaga, Yoshikazu) On the Clifford linearization of Laplacian. **89h:35068**

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Fujita, Yasuhiro Linear stochastic partial differential equations with constant coefficients. **89j:60078**

Lemmert, Roland A short proof of Weyl's lemma. **89h:35064**

35Fxx General first-order equations and systems

35F05 Linear equations and systems, general

Chung, Soon-Yeong A development of the local constancy principle in $\mathbf{R}^n$ and its applications. **89a:35052**

Jacobowitz, Howard Systems of homogeneous partial differential equations with few solutions. **89j:35043**

Kurbatova, N. M. Boundary value problems for two first-order systems. (Russian. English and Lithuanian summaries) **89h:35069**

Smoczyński, Piotr A "weak equals strong" theorem for a first-order equation. **89f:35047**

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Begehr, H. (*with* Gilbert, Robert P.) Pseudohyperanalytic functions. **89g:30085**

Berzhanov, A. B. *see* **Umbetzhanov, D. U.; et al., 89h:35032**

Gilbert, Robert P. *see* **Begehr, H., 89g:30085**

Lenhart, Suzanne M. Viscosity solutions for weakly coupled systems of first-order partial differential equations. **89m:35025**

Rudnicki, Ryszard An abstract Wiener measure invariant under a partial differential equation. (Russian summary) **89e:58072**

Umbetzhanov, D. U. (*with* Berzhanov, A. B.; Zhakashbaev, B. Zh.) Solutions, almost multiperiodic with respect to some of the variables, of systems of partial differential equations. (Russian. Kazakh summary) **89h:35032**

Zhakashbaev, B. Zh. *see* **Umbetzhanov, D. U.; et al., 89h:35032**

35F10 Initial value problems for linear equations and systems

Items with secondary classifications in 35F10

Da Prato, G. (*with* Sinestrari, E.) Differential operators with nondense domain. **89f:47062**

Sinestrari, E. *see* **Da Prato, G., 89f:47062**

35F15 Boundary value problems for linear equations and systems

Burskiĭ, V. P. Some boundary value problems for systems of first-order differential equations with a homogeneous symbol in a disk. (Russian) **89j:35044**

Sergienko, L. S. The first boundary value problem for a system of first-order differential equations that degenerates inside the domain. (Russian) **89b:35018**

Items with secondary classifications in 35F15

Beirão da Veiga, H. On a stationary transport equation. **89d:35146**

Protopopescu, V. The abstract time-dependent transport equation. **89a:35203**

Smoczyński, Piotr Coincidence of weak and strong solutions of a symmetric positive system with boundary conditions of nonconstant rank. (Russian summary) **89e:35034**

35F20 Nonlinear equations and systems, general

Bonzani, I. On the solution of first order evolution problems in continuum physics. **89h:35070**

Cannarsa, Piermarco (*with* Soner, H. M.) On the singularities of the viscosity solutions to Hamilton-Jacobi-Bellman equations. **89m:35044**

Crandall, Michael G. (*with* Lions, Pierre-Louis) Remarks on the existence and uniqueness of unbounded viscosity solutions of Hamilton-Jacobi equations. **89m:35045**

Fusco, Nicola (*with* Moscariello, Gioconda) Further results on the homogenization of quasilinear operators. **89f:35048**

Laptinskiĭ, V. N. *see* **Zhestkov, S. V., 89k:35052**

Lions, Pierre-Louis *see* **Crandall, Michael G., 89m:35045**

Moscariello, Gioconda *see* **Fusco, Nicola, 89f:35048**

Soner, H. M. *see* **Cannarsa, Piermarco, 89m:35044**

Zhestkov, S. V. (*with* Laptinskiĭ, V. N.) Some estimates for the solution of the Cauchy problem for general normal partial differential systems. (Russian. English summary) **89k:35052**

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Barbu, Viorel Approximation of the Hamilton-Jacobi equations via Lie-Trotter product formula. **89m:49046**

Barles, G. (*with* Perthame, Benoît) Exit time problems in optimal control and vanishing viscosity method. (French summary) **89i:49021**

Beals, Michael Vector fields associated with the nonlinear interaction of progressing waves. **89m:35138**

Capuzzo-Dolcetta, I. (*with* Menaldi, José-Luis) Asymptotic behavior of the first order obstacle problem. **89j:49023**

Chemin, J.-Y. Calcul paradifférentiel précisé et applications à des équations aux dérivées partielles non semilinéaires. ["Specified" paradifferential calculus and applications to nonsemilinear partial differential equations] **89h:35362**

Crandall, Michael G. (*with* Lions, Pierre-Louis) Solutions de viscosité pour les équations de Hamilton-Jacobi en dimension infinie intervenant dans le contrôle optimal de problèmes d'évolution. (English summary) [Viscosity solutions of Hamilton-Jacobi equations in infinite dimension occurring in the optimal control of evolution problems] **89a:49027**

Edelen, Dominic G. B. On solving problems in the mechanics of solids and fluids by a generalized method of characteristics. **89i:76026**

Elliott, Robert J. ★ Viscosity solutions and optimal control. **89a:49028**

Günther, Matthias Über eine Klasse von nichtlinearen, lokal stetig invertierbaren Operatoren in Skalen von Hilbert-Räumen. [On a class of nonlinear, locally continuously invertible operators in scales of Hilbert spaces] **89g:47083**

Iftode, Vasile Asymptotic properties of the solutions of some nonlinear evolution equations. (Romanian. English summary) **89i:49022**

Ishii, Hitoshi Representation of solutions of Hamilton-Jacobi equations. **89f:49030**

Koohara, Akira Function-theoretic properties of solutions of semilinear $\bar{\partial}$-equations: similarity principle. **89d:32043**

Kossowski, Marek Special points on first order partial differential equations and the deformations of solutions. **89a:35014**

Lions, Pierre-Louis *see* **Crandall, Michael G., 89a:49027**

Menaldi, José-Luis *see* **Capuzzo-Dolcetta, I., 89j:49023**

Olver, Peter J. Darboux's theorem for Hamiltonian differential operators. **89j:58033**

Osmolovskii, V. G. Rigidity of a surface with respect to deformations that satisfy first-order nonlinear differential equations. (Russian) **89j:53052**

Perthame, Benoît *see* **Barles, G., 89i:49021**

Rykov, Yu. G. Localization of perturbations in a boundary value problem for a first-order quasilinear equation. **89d:35009**

Soner, H. M. On the Hamilton-Jacobi-Bellman equations in Banach spaces. **89g:49038**

35F25 Initial value problems for nonlinear equations and systems

Barles, G. Uniqueness for first-order Hamilton-Jacobi equations and Hopf formula. **89d:35029**

Gu, Dao Xiu Complete regular solutions of nonhomogeneous quasilinear first-order partial differential equations. (Chinese. English summary) **89m:35046**

Panov, E. Yu. The Cauchy problem for a first-order quasilinear equation in a class of locally summable functions. **89d:35030**

Rykov, Yu. G. On the nature of the propagation of perturbations in the Cauchy problem for first-order quasilinear equations. (Russian) **89c:35027**

Soravia, Pierpaolo Evolution operators and viscosity solutions of Hamilton-Jacobi equations. (Italian summary) **89m:35047**

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Diblík, Josef Application of the topological method of T. Ważewski to the investigation of the asymptotic behavior of the solutions of a partial differential equation. (Russian. English and Czech summaries) **89h:35041**

Kruzhkov, S. N. (*with* Petrosyan, N. S.) Asymptotic behavior of the solutions of the Cauchy problem for first-order nonlinear equations. (Russian) **89d:35023**

Laptinskiĭ, V. N. *see* **Zhestkov, S. V., 89k:35052**

Petrosyan, N. S. *see* **Kruzhkov, S. N., 89d:35023**

Skorobogat'ko, V. Ya. Solution of systems of partial differential equations by the matrix method. (Russian. English summary) **89f:35040**

Zhestkov, S. V. (*with* Laptinskiĭ, V. N.) Some estimates for the solution of the Cauchy problem for general normal partial differential systems. (Russian. English summary) **89k:35052**

35F30 Boundary value problems for nonlinear equations and systems

Ishii, Hitoshi Perron's method for Hamilton-Jacobi equations. **89a:35053**

Items with secondary classifications in 35F30

Capuzzo-Dolcetta, I. Hamilton-Jacobi equations with constraints. **89c:49019**

Perthame, Benoît (*with* Sanders, Richard) The Neumann problem for nonlinear second order singular perturbation problems. **89d:35012**

Sanders, Richard *see* **Perthame, Benoît, 89d:35012**

Wu, Su Ming A nonlinear free boundary problem of filtration in an earthen dam. (Chinese. English summary) **89g:35121**

35F99 None of the above, but in this section

Items with secondary classifications in 35F99

Inman, D. J. (*with* Olsen, C. L.) Dynamics of symmetrizable nonconservative systems. **89b:73031**

Kamin, Shoshana Elliptic perturbation for linear and nonlinear equations with a singular point. **89j:35023**

Olsen, C. L. *see* **Inman, D. J., 89b:73031**

Protter, M. H. Overdetermined first order elliptic systems. **89k:35072**

Rafajłowicz, Ewaryst Distributed parameter systems analysis by tracking stationary points of their states. **89d:35101**

35Gxx General higher-order equations and systems

Items with secondary classifications in 35Gxx

Mizohata, Sigeru ★ On the Cauchy problem. **89a:35007**

35G05 Linear equations and systems, general

Chernyaev, A. P. Fundamental solutions of differential equations of a certain class in anisotropic spaces of generalized functions. **89j:35045**

— Fundamental solutions of differential equations of a certain class in anisotropic spaces of generalized functions. **89h:35071**

Laptev, G. I. A third-order quasilinear partial differential equation. (Russian) **89h:35072**

Liang, Yuan Di Note on differential operators of normal principal type with vector (K) order. (Chinese. English summary) **89h:35073**

Segàla, Fausto Parametrices for a class of differential operators with multiple characteristics. **89c:35028**

Items with secondary classifications in 35G05

Ayupova, N. B. Formulas in problems of the determination of sources. (Russian) **89h:35332**

Berglez, P. On the general solution of linear partial differential equations with coefficients depending on one variable. **89k:35047**

Cicognani, M. (*with* Corli, A.) Propagation of singularities for operators with constant coefficient hyperbolic-elliptic principal part. **89f:35009**

Corli, A. *see* **Cicognani, M., 89f:35009**

Kornienko, V. V. Strongly irregular equations. (Russian) **89e:35117**

Kulikov, A. A. Fundamental solutions of differential equations containing a Bessel operator. **89e:35003**

Tervo, J. On solvability of linear partial differential equations in local spaces $\mathscr{B}_{p,k}^{\mathrm{loc}}(G)$. (German and Russian summaries) **89h:35006**

35G10 Initial value problems for linear equations and systems

Items with secondary classifications in 35G10

Da Prato, G. (*with* Sinestrari, E.) Differential operators with nondense domain. **89f:47062**

Lesky, P., Jr. Resonanzeffekte bei partiellen Differentialgleichungen höherer Ordnung in Wellenleitern. [Resonance effects for higher-order partial differential equations in waveguides] **89k:35034**

Liess, Otto Regularity of solutions of Cauchy problems with smooth Cauchy data. **89m:35037**

Sinestrari, E. *see* **Da Prato, G., 89f:47062**

35G15 Boundary value problems for linear equations and systems

Balaev, M. K. (*with* Yakubov, S. Ya.) The well-posedness of a mixed problem for some classes of equations that are well-posed in the sense of Petrovskiĭ. (Russian) **89k:35053**

Dedushev, A. V. An analogue of a method of A. N. Krylov for a mixed problem. (Russian) **89h:35074**

Diao, Yuan Sheng The Dirichlet problem for systems of second-order partial differential equations with zero principal characteristic polynomial. (Chinese. English summary) **89g:35026**

Egorov, I. E. The first boundary value problem for a nonclassical equation. (Russian) **89d:35031**

Fang, Wei Fu Boundary value problems for systems of second-order partial differential equations with zero characteristic polynomial. (Chinese. English summary) **89j:35046**

Filippov, V. M. Semibounded solutions of inverse problems of the calculus of variations. (Russian) **89h:35075**

Koltunovskiĭ, O. A. A nonlocal problem for a third-order partial differential equation. (Russian) **89m:35048**

Nakhushev, A. M. On the problem of the search for necessary boundary conditions for the basic types of equations in mathematical physics. (Russian) (*see* **89j:00030**)

Yakubov, S. Ya. *see* **Balaev, M. K., 89k:35053**

Yanov, S. I. Solvability of general mixed problems for a class of systems not of Cauchy-Kovalevskaya type. (Russian) **89h:35076**

Items with secondary classifications in 35G15

Jacob, Niels On Dirichlet's boundary value problem for some formally hypoelliptic differential operators. **89j:35048**

Mieloszyk, E. Abstract equivalent differential equations in boundary value problems. **89b:47019**

— Operational calculus and boundary value problem for an abstract differential equation. (German and Russian summaries) **89e:47011**

Sargsyan, G. A. *see* **Virabyan, G. V., 89j:35097**

Virabyan, G. V. (*with* Sargsyan, G. A.) Two-fold completeness of a system of eigenfunctions for a class of differential operator pencils generated by general boundary conditions. (Russian. English and Armenian summaries) **89j:35097**

Zhitarashu, N. V. Boundary values of the generalized solutions of systems of parabolic equations. (Russian) **89h:35066**

35G20 Nonlinear equations and systems, general

Gvazava, D. K. Second-order nonlinear equations with complete characteristic systems and characteristic problems for them. (Russian) **89b:35019**

John, Fritz Existence for large times of finite amplitude elastic waves arising from small disturbances. **89d:35032**

Mukminov, F. Kh. On the straightening of the characteristics of a second-order quasilinear equation. **89j:35047**

Palyutkin, V. G. Triviality classes of solutions of nonlinear equations in a half-plane. (Russian) **89m:35049**

Zharinov, V. V. The Green formula for nonlinear systems of partial differential equations. **89a:35054**

Items with secondary classifications in 35G20

Ishii, Tan On propagation of regular singularities for solutions of nonlinear partial differential equations. I. **89j:35011**

Leichtnam, Éric Construction de solutions singulières pour des équations aux dérivées partielles non linéaires. [Construction of singular solutions for nonlinear partial differential equations] **89a:35011**

Mawhin, J. ★ Problèmes de Dirichlet variationnels non linéaires. (French) [Nonlinear variational Dirichlet problems] **89d:58024**

Mazmanyan, S. M. (*with* Sardaryan, V. S.) Soliton solutions of systems of two nonlinear partial differential equations of the form $u_t = A(u)u_{xx} + F(u, u_x)$. (Russian. English and Armenian summaries) **89a:35194**

Olver, Peter J. Darboux's theorem for Hamiltonian differential operators. **89j:58033**

Plebański, J. F. Wronskians, geometry, and some general solutions to the nonlinear Liouville-like PDEs. **89j:58006**

Ranganathan, P. V. Homogeneous solutions of some second order nonlinear partial differential equations. **89m:35039**

Sardaryan, V. S. *see* **Mazmanyan, S. M., 89a:35194**

35G25 Initial value problems for nonlinear equations and systems

Chen, Shao Hua Existence of global solutions to evolution equations with completely nonlinear perturbations. (Chinese) (Not in MR)

Items with secondary classifications in 35G25

Gourdin, Daniel Classes d'opérateurs faiblement hyperboliques non linéaires. [Classes of nonlinear weakly hyperbolic operators] **89m:35144**

Schuchman, Vladimir On behavior of solutions of nonlinear differential equations in Hilber space. II. **89j:34095**

35G30 Boundary value problems for nonlinear equations and systems

Abdinazarov, S. A boundary value problem for an equation of even order with multiple characteristics. (Russian) **89e:35035**

Karapetyan, G. A. A boundary value problem for quasilinear regular equations in unbounded domains. **89m:35050**

Marinets, V. V. Some problems for systems of nonlinear partial differential equations with nonlocal boundary conditions. **89m:35051**

Items with secondary classifications in 35G30

Balaev, M. K. Solvability of differential equations of arbitrary order with unbounded operator coefficients. (Russian. English and Azerbaijani summaries) **89k:34109**

Schechter, Martin Potential estimates in Orlicz spaces. **89g:46068**

Tam, Luen-Fai The behavior of capillary surfaces as gravity tends to zero. **89c:76040**

35G99 None of the above, but in this section

Paek, Mun Chol Connected problems for partial differential equations of third order. (Korean. English summary) **89a:35055**

Items with secondary classifications in 35G99

Villarroel, Yuli Family of systems of partial differential equations. (Spanish) **89h:58012**

Vodop'yanov, S. K. Quasielliptic L_p-theory of potential and its applications. **89f:46086**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Akamatsu, Toyohiro On some classes of nonhypoelliptic second order partial differential operators. **89h:35077**
Amano, Kazuo The global hypoellipticity of degenerate elliptic-parabolic operators. **89d:35033**
Ben Arous, G. Noyau de la chaleur hypoelliptique et géométrie sous-riemannienne. [The hypoelliptic heat kernel and sub-Riemannian geometry] **89k:35054**
Hong, Jia Xing L^2-hypoellipticity for a class of operators of mixed type. **89h:35078**
Jacob, Niels A converse to Gårding's inequality for a class of formally hypoelliptic differential operators. **89b:35020**
— On Dirichlet's boundary value problem for some formally hypoelliptic differential operators. **89j:35048**
Jerison, David (*with* Sánchez-Calle, Antonio) Subelliptic, second order differential operators. **89b:35021**
Kazaryan, G. G. (*with* Markaryan, V. N.) Estimates for the solutions of nonhypoelliptic equations with a given carrier of hypoellipticity. (Russian. English and Armenian summaries) **89h:35079**
Kusuoka, Shigeo (*with* Stroock, Daniel W.) Long time estimates for the heat kernel associated with a uniformly subelliptic symmetric second order operator. **89b:35022**
Lerner, Nicolas Carleman's and subelliptic estimates. **89e:35036**
Maire, H.-M. Necessary and sufficient condition for maximal hypoellipticity of $\overline{\partial}_b$. **89k:35055**
Markaryan, V. N. *see* **Kazaryan, G. G., 89h:35079**
Matsuzawa, Tadato Hypoellipticity in ultradistribution spaces. **89c:35029**
Morimoto, Yoshinori Criteria for hypoellipticity. **89m:35052**
— A criterion for hypoellipticity of second order differential operators. **89b:35023**
— The uncertainty principle and hypoelliptic operators. **89e:35037**
Nourrigat, J. Systèmes sous-elliptiques. [Subelliptic systems] **89d:35034**
Ōkaji, Takashi Gevrey-hypoelliptic operators which are not C^∞-hypoelliptic. **89k:35056**
— A class of pseudo-differential operators of logarithmic type and infinitely degenerate hypoelliptic operators. **89k:35057**
Pahk, Dae Hyeon On the hypoelliptic boundary value problems. **89d:35035**
Sakurai, Tsutomu Gevrey hypoellipticity for operators with nonsymplectic characteristics. **89f:35049**
Sánchez-Calle, Antonio *see* **Jerison, David, 89b:35021**
Shafii-Mousavi, M. (*with* Zielezny, Z.) Relation between growth and regularity of solutions of hypoelliptic equations. **89f:35050**
Stroock, Daniel W. *see* **Kusuoka, Shigeo, 89b:35022**
Xu, Chao Jiang Hypoellipticity of nonlinear second order partial differential equations. **89f:35051**
Zielezny, Z. *see* **Shafii-Mousavi, M., 89f:35050**

Items with secondary classifications in 35H05

Arakelyan, M. Z. *see* **Karapetyan, G. A., 89h:35021**
Ben Arous, G. Développement asymptotique du noyau de la chaleur hypoelliptique hors du cut-locus. [Asymptotic expansion of the hypoelliptic heat kernel outside of the cut-locus] **89k:60087**
Boas, Harold P. (*with* Straube, Emil J.) Integral inequalities of Hardy and Poincaré type. **89f:46068**
Chen, So-Chin Global analytic hypoellipticity of the $\overline{\partial}$-Neumann problem on circular domains. **89h:35240**
Cygan, Jacek M. (*with* Richardson, Leonard F.) Globally hypoelliptic systems of vector fields on nilmanifolds. **89f:22010**
Derridj, Makhlouf (*with* Tartakoff, David S.) Local analyticity for $\square_b$ and the $\overline{\partial}$-Neumann problem at certain weakly pseudoconvex points. **89m:35158**
Gouleau, Maxime Construction d'une paramétrixe pour des opérateurs différentiels hypoelliptiques maximaux sur un espace homogène d'un groupe de Lie nilpotent gradué de rang 2. [Construction of a parametrix for maximal hypoelliptic differential operators on a homogeneous space of a graded nilpotent Lie group of rank 2] **89k:58281**
Gudmundsdottir, Gudrun A regularity theorem for differential equations of constant strength. **89d:35003**
Haruki, Shigeru *see* **Tsutsumi, A., 89e:39012**
Hoshiro, Toshihiko Microlocal energy method of Mizohata and hypoellipticity. **89e:35004**
Karapetyan, G. A. (*with* Arakelyan, M. Z.) Theorems of Liouville and of Phragmén-Lindelöf type for semi-elliptic equations with general initial conditions. (Russian. Armenian summary) **89h:35021**
Levendorskii, S. Z. On the symbols of degenerate elliptic differential and hypoelliptic pseudodifferential operators. **89h:35364**
Lopatnikov, A. M. Asymptotic behavior of the spectral function for a class of hypoelliptic operators. **89g:58208**
Melrose, Richard B. Propagation for the wave group of a positive subelliptic second-order differential operator. **89h:35177**
Miller, Kenneth G. Microlocal regularity on step two nilpotent Lie groups. **89d:58124**
Miyajima, Kimio Subellipticity at higher degree of a boundary condition associated with construction of the versal family of strongly pseudoconvex domains. **89c:32056**
Nagase, Michihiro (*with* Umeda, Tomio) On the essential selfadjointness of pseudo-differential operators. **89h:47075**
Nourrigat, J. Inégalités L^2 et représentations de groupes nilpotents. [L^2-inequalities and representations of nilpotent groups] **89k:22015**
Qiu, Qing Jiu An L^2 estimate for a certain second-order differential operator with nonregular coefficients. (Chinese) **89b:35172**
Richardson, Leonard F. *see* **Cygan, Jacek M., 89f:22010**
Rodino, Luigi Local solvability in Gevrey classes. **89d:35001**
Straube, Emil J. *see* **Boas, Harold P., 89f:46068**
Tartakoff, David S. *see* **Derridj, Makhlouf, 89m:35158**
Tose, Nobuyuki (*with* Uchida, Moto-o) On a class of partially hypoelliptic microdifferential equations. **89m:58199**
Tsutsumi, A. (*with* Haruki, Shigeru) The regularity of solutions of functional equations and hypoellipticity. **89e:39012**
Uchida, Moto-o *see* **Tose, Nobuyuki, 89m:58199**
Umeda, Tomio *see* **Nagase, Michihiro, 89h:47075**
Yi, Fa Huai Smoothness of the solutions of second-order differential equations having nonnegative characteristics. (Chinese. English summary) **89k:35041**

35Jxx Elliptic equations and systems [see also 58G05, 58G10]

Items with secondary classifications in 35Jxx

Aimar, Hugo Elliptic and parabolic BMO and Harnack's inequality. **89j:35014**
Kukharchuk, N. M. A priori estimates for the generalized derivatives of the solutions of second-order quasilinear elliptic equations. (Russian) **89e:35025**
Marti, Jürg ★ Introduction to Sobolev spaces and finite element solution of elliptic boundary value problems. **89c:46050**
Protter, M. H. Lower bounds for the spectrum of second order operators and systems of operators. **89k:35166**
— Universal inequalities for eigenvalues. **89k:35167**
— The asymptotics of eigenvalues. **89k:35168**

35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation

Aguirre, Freddy (*with* Conca, Carlos) Eigenfrequencies of a tube bundle immersed in a fluid. **89b:35024**
Akimov, A. B. (*with* Iskenderov, B. A.) Radiation principles for the Helmholtz equation in a layer with boundary conditions of Zaremba type. (Russian. English and Azerbaijani summaries) **89i:35034**
Anyanwu, Donatus U. (*with* Nwoke, Christian) Uniform approximations for the natural modes and frequencies of spindle-shaped acoustical resonators. **89i:35035**
Baimov, Sh. K. (*with* Kerimov, A. M.) Some properties of a boundary value problem with a small parameter. (Russian) **89b:35025**
Bates, R. H. T. *see* **Tan, D. G. H.; et al., 89k:35059**
van den Berg, Michiel On traces associated with the Dirichlet Laplacian. **89f:35052**
Cheney, Margaret (*with* Rose, James H.) Generalization of the Fourier transform: implications for inverse scattering theory. **89d:35036**
— (*with* Rose, James H.; DeFacio, B.) A fundamental integral relation of scattering theory. **89k:35058**
Conca, Carlos *see* **Aguirre, Freddy, 89b:35024**
Damlamian, Alain (*with* Li, Da Qian) Boundary homogenization for elliptic problems. **89b:35026**
DeFacio, B. *see* **Cheney, Margaret; et al., 89k:35058**
Dittmar, B. Zur Berechnung Stekloffscher Eigenwerte. (English summary) [On the computation of Steklov eigenvalues] **89h:35080**
England, Roland *see* **Ize, Jorge; et al., 89g:35027**
Erēmin, Yu. A. (*with* Sveshnikov, A. G.) On the existence of equivalent scatterers in inverse problems of diffraction theory. **89d:35037**
Gabdullin, R. R. Diffraction of plane waves in a compressible stratified fluid by a strip of finite width. (Russian) **89d:35038**
Grisvard, Pierre Le problème de Dirichlet dans l'espace W_p^1. (English summary) [The Dirichlet problem in the space W_p^1] **89c:35031**
— Edge behavior of the solution of an elliptic problem. **89c:35030**
Guo, You Zhong (*with* Ma, Chen; Zhang, Wei Tao) A problem arising from the effect of thermal gradients in marine piled structures. **89i:35036**
Iskenderov, B. A. *see* **Akimov, A. B., 89i:35034**
Ize, Jorge (*with* England, Roland; Sabina, Federico J.) Diffraction of waves by inhomogeneous obstacles. **89g:35027**
Kerimov, A. M. *see* **Baimov, Sh. K., 89b:35025**
Kleinman, R. E. (*with* Martin, Paul Andrew) On single integral equations for the transmission problem of acoustics. **89f:35053**
Kosmodem′yanskiĭ, A. A., Jr. Sufficient conditions for the concavity of the solution of the Dirichlet problem for the equation $\Delta u = -1$. (Russian) **89b:35027**
Kress, Rainer On the low wave number asymptotics for the two-dimensional exterior Dirichlet problem for the reduced wave equation. **89a:35056**
Li, Da Qian *see* **Damlamian, Alain, 89b:35026**
Li, Zi-Cai A note on Kellogg's eigenfunctions of a periodic Sturm-Liouville system. (Not in MR)
Liang, Yuan Di Uniqueness of solutions to boundary value problems for the Helmholtz equation on Kristensson domains. (Chinese) **89m:35053**
Lin, Tzu-Chu Smoothness results of single and double layer solutions of the Helmholtz equations. **89i:35037**
Liskevich, V. A. (*with* Perel′muter, M. A.) Integrability properties of the solutions of second-order elliptic equations. **89h:35081**
Ma, Chen *see* **Guo, You Zhong; et al., 89i:35036**
Manocha, H. L. Hilbert space structure on the solution space of Helmholtz equation. **89m:35054**
Martin, Paul Andrew *see* **Kleinman, R. E., 89f:35053**
Maz′ya, V. G. (*with* Solov′ev, A. A.) Solvability of an integral equation of the Dirichlet problem in a plane domain with cusps on the boundary. **89h:35082**
Mei, Dong Ming Selection of a particular solution to Poisson's equation on a rectangular domain. (Chinese. English summary) **89i:35038**
Meister, Erhard (*with* Speck, Frank-Olme) A contribution to the quarter-plane problem in diffraction theory. **89d:35039**
Millar, R. F. Application of the Schwarz function to boundary problems for Laplace's equation. **89c:35032**
Murch, R. D. *see* **Tan, D. G. H.; et al., 89k:35059**

Nicaise, Serge Problèmes de transmission généralisés et coefficients des singularités—cas $W^{2,p}$. (English summary) [Generalized interface problems and coefficients of the singularities—the $W^{2,p}$ case] **89g:35028**
Nitsche, Joachim A. Direct proofs of some unusual shift-theorems. **89m:35055**
Nwoke, Christian *see* **Anyanwu, Donatus U., 89i:35035**
Perel′muter, M. A. *see* **Liskevich, V. A., 89h:35081**
Popov, M. M. *see* **Zalipaev, V. V., 89a:35060**
Ramm, A. G. Necessary and sufficient conditions for a function $A(\theta', \theta, k)$ to be the scattering amplitude corresponding to a reflecting obstacle. **89a:35057**
— Completeness of the products of solutions to PDE and uniqueness theorems in inverse scattering. **89b:35028**
Rose, James H. *see* **Cheney, Margaret, 89d:35036** *and* **89k:35058**
Sabina, Federico J. *see* **Ize, Jorge; et al., 89g:35027**
Shestopalov, V. P. *see* **Sirenko, Yu. K., 89a:35058** *and* **89f:35054**
Shishat·skii, S. P. Interior problems for elliptic and parabolic equations, and Carleman estimates with distributed singularities. **89d:35040**
Sirenko, Yu. K. (*with* Shestopalov, V. P.) Isolation of the physical solutions of problems in the theory of wave diffraction by one-dimensional periodic gratings. **89f:35054**
— (*with* Shestopalov, V. P.) The principles of radiation, limit absorption and limit amplitude in problems of the diffraction of waves by one-dimensional periodic gratings. (Russian) **89a:35058**
Solov′ev, A. A. *see* **Maz′ya, V. G., 89h:35082**
Speck, Frank-Olme *see* **Meister, Erhard, 89d:35039**
Steux, Jean-Luc Problème de Dirichlet pour le laplacien dans un domaine à point cuspide. (English summary) [Dirichlet problem for the Laplacian in domains with cusp on the boundary] **89i:35039**
Suleĭmanov, N. S. Approximate methods for the calculation of the eigenvalues and eigenfunctions of boundary value problems of Steklov type. (Russian) **89b:35029**
Sveshnikov, A. G. *see* **Erëmin, Yu. A., 89d:35037**
Tan, D. G. H. (*with* Murch, R. D.; Bates, R. H. T.) Algorithmic implementation of a global solution to the scalar inverse scattering problem. **89k:35059**
Tkachenko, N. V. Solution of a certain Cauchy problem for the Laplace equation. (Russian) **89f:35055**
Wall, D. J. N. A uniqueness theorem for the reduced wave equation governing the acoustic wave in a heterogeneous medium. **89g:35029**
Weder, R. Absence of eigenvalues of the acoustic propagator in deformed wave guides. **89i:35040**
Węglowski, Zbigniew Boundary value problems for the equation $(\Delta - c^2)u(X) = f(X, u(X))$ in the rectangle. (Russian and Polish summaries) **89i:35041**
Wilde, Peter (*with* Willers, Achim) Dense sets and far field patterns for the vector Helmholtz equation under transmission boundary conditions. **89d:35041**
Willers, Achim *see* **Wilde, Peter, 89d:35041**
Yafaev, D. R. Eikonal approximation for rapidly decreasing potentials. I. (Russian. English summary) **89a:35059**
Yanson, Z. A. On the high-frequency asymptotic behavior of solutions of the Helmholtz equation in a region of caustic shadow. II. (Russian) **89k:35060**
Zalipaev, V. V. (*with* Popov, M. M.) Short-wave grazing scattering of a plane wave by a smooth periodic boundary. I. Diffraction of the penumbral field by a smooth convex contour. (Russian. English summary) **89a:35060**
Zhang, Wei Tao *see* **Guo, You Zhong; et al., 89i:35036**

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Chekmarëv, T. V. A nonlocal problem for a system of equations of Helmholtz type. (Russian) **89h:35105**
Chen, Qing Yi Oscillating functions and reduced wave equations. (Chinese. English summary) **89m:35019**
Cheney, Margaret (*with* Kristensson, Gerhard) Three-dimensional inverse scattering: layer-stripping formulae and ill-posedness results. **89i:35128**
Chipot, Michel (*with* Eymard, Pierre; Tahani, Taoufiq) Sur les fonctions propres de l'opérateur de Laplace-Beltrami dont le carré est fonction propre. (English summary) [On the eigenfunctions of the Laplace-Beltrami operator whose squares are eigenfunctions] **89i:43007**
Colli, Pierluigi (*with* Oswald, Luc) An existence result for the electropainting problem. **89h:35349**
Colton, David (*with* Kirsch, Andreas) Karp's theorem in acoustic scattering theory. **89h:35334**
Conca, Carlos (*with* Donato, Patrizia) Nonhomogeneous Neumann problems in domains with small holes. (French summary) **89m:35023**
Cserti, J. (*with* Kertész, J.) Asymptotic number of needles in Laplacian growth. **89d:82045**
Damlamian, Alain Le problème de la passoire de Neumann. [The Neumann sieve problem] **89c:35014**
Dassios, George (*with* Payne, L. E.) Estimates for low-frequency elastic scattering by a rigid body. **89i:73026**
Davidson, Rodney F. Waves below first cutoff in a duct. **89c:73026**
Donato, Patrizia *see* **Conca, Carlos, 89m:35023**
Dontová, Eva Reflection and the Dirichlet problem on doubly connected regions. (Russian and Czech summaries) **89h:31002a**
— Reflection and the Neumann problem on doubly connected regions. (Russian and Czech summaries) **89h:31002b**
Doppel, K. (*with* Schomburg, B.) On a weakly formulated exterior problem from linear hydrodynamics. **89i:76023**
Eymard, Pierre *see* **Chipot, Michel; et al., 89i:43007**
Feng, Kang Asymptotic radiation conditions for reduced wave equation. **89f:65134**
Feyel, Denis (*with* de La Pradelle, A.) Sur certaines perturbations non linéaires du laplacien. (English summary) [On some linear perturbations of the Laplacian] **89k:35091**
Freeden, Willi Metaharmonic splines for solving the exterior Dirichlet problem for the Helmholtz equation. **89h:41025**
Gautesen, A. K. The effective conductivity of a composite material with a periodic rectangular geometry. **89b:80005**
Gilbert, Robert P. (*with* Xu, Yong Zhi; Wood, David H.) Construction of approximations to acoustic Green's functions for nonhomogeneous oceans using transmutation. **89i:76081**
Gottlieb, H. P. W. Density distribution for isospectral circular membranes. **89j:73068**
Il′in, V. A. (*with* Joó, István) An inequality of Bessel type for the system of eigenfunctions of a nonselfadjoint Laplace operator. (Russian) **89c:35127**
Jimbo, Shuichi Characterization of the eigenfunctions in the singularly perturbed domain. **89f:35155**
— Characterization of the eigenfunctions in the singularly perturbed domain. II. **89m:35162**
Joó, István *see* **Il′in, V. A., 89c:35127**
Kapoor, G. P. (*with* Nautiyal, A.) Growth and approximation of generalized bi-axially symmetric potentials. **89f:31006**
Kertész, J. *see* **Cserti, J., 89d:82045**
Kigami, Jun *see* **Yamaguti, Masaya, 89j:31003**
Kirpichnikova, N. Ya. Waves on the surface of a heavy fluid from the point of view of the space-time ray method and its modifications (linear theory). (Russian) **89a:35144**
Kirsch, Andreas (*with* Kress, Rainer) An optimization method in inverse acoustic scattering (invited contribution). **89h:76033**
— (*with* Kress, Rainer; Monk, P. B.; Zinn, A.) Two methods for solving the inverse acoustic scattering problem. **89k:73024**
— *see also* **Colton, David, 89h:35334**
Kress, Rainer *see* **Kirsch, Andreas, 89h:76033** *and* **89k:73024**
Kristensson, Gerhard *see* **Cheney, Margaret, 89i:35128**
Lamb, Wilson On the solution of certain distributional boundary value problems. **89f:35045**
de La Pradelle, A. *see* **Feyel, Denis, 89k:35091**
Lenoir, Marc André (*with* Vullierme-Ledard, M.) Numerical computation of scattering frequencies. **89k:76084**
Levine, H. A. Some remarks on inequalities between Dirichlet and Neumann eigenvalues. **89j:35099**
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Mortola, Stefano (*with* Steffé, Sergio) A two-dimensional homogenization problem. (Italian. English summary) **89f:49024**
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Najman, B. Singular perturbations in L_p. (Serbo-Croatian summary) **89e:35018**
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Ono, Akira Boundary estimates for elliptic partial differential equations in the $\mathscr{L}^{(q,\lambda)}$ spaces of strong type. **89b:35037**
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Yanagawa, Minoru The distribution of eigenvalues of the Dirichlet problem in quasi-bounded open sets. **89a:35155**

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Begehr, H. Randwertaufgaben für elliptische Systeme vom Haack-Vekua Typ. [Boundary value problems for elliptic systems of Haack-Vekua type] **89h:35099**
— (*with* Wen, Guo Chun) The discontinuous oblique derivative problem for nonlinear elliptic systems of first order. **89h:35100**
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Rakhmatullaev, A. Kh. Solution of a uniformly elliptic quasilinear system of equations of generalized analytic functions. (Russian) **89f:35069**
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— *see also* **Aĭzenberg, L. A., 89i:35052**
Tungatarov, A. A system of equations of elliptic type with a singular point. (Russian) **89a:35070**
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Goldschmidt, Bernd Representation of generalized analytic vectors in matrix form. **89d:30051**
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Maz′ya, V. G. (*with* Nazarov, S. A.) Asymptotic behavior of energy integrals under small perturbations of the boundary near corner and conic points. **89a:35034**
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Rus, Ioan A. Maximum principle for strongly elliptic systems: a conjecture. (*see* **89j:00023**)
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Wegert, E. Topological methods for strongly nonlinear Riemann-Hilbert problems for holomorphic functions. **89k:30042**
Zhikov, V. V. (*with* Sirazhudinov, M. M.) Averaging of a system of Beltrami equations. **89d:35013**

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Troisi, Mario Elliptic operators in variational form in unbounded open subsets of $\mathbf{R}^n$. (Italian. English summary) **89i:35054**

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Kawohl, Bernhard (*with* Sweers, G.) Remarks on eigenvalues and eigenfunctions of a special elliptic system. (German summary) **89c:35125**
Shibata, Tetsutaro Asymptotic distribution of eigenvalues of nonsymmetric elliptic operators. **89h:35251**
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35J55 Systems, boundary value problems

Akhmedov, R. Boundary value problems for the equation $2\overline{z}\partial_{\overline{z}}w - (\lambda\exp(\mathrm{in}\,\varphi) + b(z))\overline{w} = 0$. (Russian. Tajiki summary) **89k:35073**
Berezin, A. Yu. A nonregular problem with an oblique derivative for an elliptic system. (Russian) **89c:35039**
Bikchantaev, I. A. Differential boundary value problems for first-order elliptic systems on Riemann surfaces. (Russian) **89h:35104**
Bliev, N. K. (*with* Idirisov, Zh. M.) On a general boundary value problem for an elliptic system of first-order equations on the plane, in fractional spaces. (Russian. Kazakh summary) **89k:35074**
Butuzov, V. F. (*with* Nikitin, A. G.) An angular boundary layer in the asymptotics of the solution of a singularly perturbed system of equations of elliptic type. (Russian) **89d:35051**
Chekmarëv, T. V. A nonlocal problem for a system of equations of Helmholtz type. (Russian) **89h:35105**
Cheng, Jin^2 (*with* Zeng, Yue Sheng) Riemann-Hilbert boundary value problems for a class of systems of elliptic first-order partial differential equations in the plane. (Chinese. English summary) **89m:35067**
Deng, Zhi Bing Systems of elliptic equations that are degenerate on the whole boundary. (Chinese. English summary) **89f:35071**
Dzhuraev, A. D. ★ Метод сингулярных интегральных уравнений. (Russian) [The method of singular integral equations] **89h:35106**
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Mshimba, A. S. A. The Hilbert boundary value problem for elliptic differential equation in the plane. **89m:35068**
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Radzhabova, L. Representation of a manifold of solutions, and boundary value problems for a degenerate system. (Russian) **89c:35040**
Saidov, K. On the Riemann-Hilbert problem for the degenerate generalized Moisil-Teodorescu system. (Russian) **89a:35074**
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Tokibetov, Zh. A. A boundary value problem for a vector that is holomorphic in a half-space. (Russian) **89a:35075**
Voloshina, M. S. (*with* Gupalo, A. S.; Lopushanskaya, G. P.) Solution of generalized mixed boundary value problems for inhomogeneous strongly elliptic systems of second-order differential equations in the case of a multiply connected domain. (Russian) **89e:35050**
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Kapishev, G. K. A general boundary value problem for a generalized analytic vector-valued function in fractional spaces. (Russian. Kazakh summary) **89h:30064**

Kerkhoven, Thomas A spectral analysis of the decoupling algorithm for semiconductor simulation. **89k:65008**
Kvitko, A. N. The discontinuous Hilbert problem for an elliptic system of first-order differential equations on a Riemann surface. (Russian) **89b:30034**
Mamaturdiev, T. M. A sufficient condition for the solvability of a second-order degenerate complex elliptic equation. (Russian) **89d:35070**
Mandzhavidze, G. F. (*with* Ngô Văn Lu'ọ'c) Problem V for generalized analytic vectors. (Russian. English and Georgian summaries) **89e:30074**
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Nominov, A. D. A boundary value problem for a multidimensional degenerate system in a dihedral angle. (Russian) **89b:35059**
Roĭtberg, Ya. A. (*with* Sheftel', Z. G.) The solvability, in L_p-spaces of generalized functions, of general boundary value problems for strongly degenerate elliptic systems. **89b:35060**
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Shelepov, V. Yu. Boundary properties of the solutions of strongly elliptic systems in nonsmooth $(n+1)$-dimensional domains. (Russian. English summary) **89c:35063**
Shukurov, Kh. R. Boundary value problems for a degenerate elliptic system. (Russian) **89a:35095**
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35J60 Nonlinear equations and systems

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d'Aujourd'hui, Marcel The stability of the resonance set for a problem with jumping nonlinearity. **89h:35110**
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Citti, Giovanna Existence of infinitely many solutions for a quasilinear degenerate elliptic equation in $\mathbf{R}^n$. **89j:35052**
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El Hachimi, Abderrahmane (*with* de Thélin, François) Supersolutions and stabilization of the solutions of the equation: $(\partial u/\partial t) - \operatorname{div}(|\nabla u|^{p-2}\nabla u) = f(x,u)$. **89k:35076**
Eydeland, Alexander (*with* Spruck, Joel) The inverse power method for semilinear elliptic equations. **89k:35077**
Franchi, Bruno (*with* Lanconelli, Ermanno; Serrin, J.) Existence and uniqueness of ground states for quasilinear elliptic equations. (Italian. English summary) **89e:35052**
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Hayasida, Kazuya (*with* Kawai, Yasuhiko) On a degenerate quasilinear elliptic equation with mixed boundary conditions. **89g:35035**
Heinonen, Juha (*with* Kilpeläinen, Tero) A-superharmonic functions and supersolutions of degenerate elliptic equations. **89k:35079**
— Asymptotic paths for subsolutions of quasilinear elliptic equations. **89m:35069**
Hong, Chong Wei Equation $\Delta u + K(x)e^{2u} = f(x)$ on $\mathbf{R}^2$ via stereographic projection. **89f:35073**
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Kusano, Takaŝi (*with* Noussair, Ezzat S.; Swanson, Charles A.) Existence of decaying entire solutions of a class of semilinear elliptic equations. **89d:35054**
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Ladyzhenskaya, O. A. (*with* Ural'tseva, N. N.) A Lipschitz estimate at the boundary points for the solutions of quasilinear equations of divergence form. (Russian) **89k:35082**
— (*with* Ural'tseva, N. N.) Estimates on the boundary of the domain of first derivatives of functions satisfying an elliptic or a parabolic inequality. (Russian) **89k:35083**
Lancaster, Kirk E. Nonparametric minimal surfaces in $\mathbf{R}^3$ whose boundaries have a jump discontinuity. **89m:35072**
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Lau, Chi Ping On removable isolated singularities of solutions to a class of quasilinear elliptic equations. **89c:35045**
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Pogorelov, A. V. ★ Многомерное уравнение Монжа-Ампера det $\|z_{ij}\| = \varphi(z_1, \cdots, z_n, z, x_1, \cdots, x_n)$. (Russian) [The multidimensional Monge-Ampère equation det $\|z_{ij}\| = \varphi(z_1, \cdots, z_n, z, x_1, \cdots, x_n)$] **89g:35036**
Popivanov, P. (*with* Kutev, N.) Solvability of the degenerate complex Monge-Ampère equation. **89m:35074**
Raitums, U. On SG-convergence of almost linear elliptic operators. (Russian) **89h:35113**
Richard, Yves (*with* Véron, Laurent) Un résultat d'isotropie pour des singularités d'inéquations elliptiques non linéaires. (English summary) [An isotropy result for isolated singularities of nonlinear elliptic inequalities] **89a:35079a**
— (*with* Véron, Laurent) Erratum: "An isotropy result for isolated singularities of nonlinear elliptic inequalities". (French) **89a:35079b**
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Schulz, Friedmar (*with* Liao, Liang Yuan) Regularity of solutions of two-dimensional Monge-Ampère equations. **89e:35053**
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Vuillermot, Pierre-A. Corrigendum: "A class of elliptic partial differential equations with exponential nonlinearities" [Math. Ann. **268** (1984), no. 4, 497–518; MR 86f:35083]. **89c:35050**
Walter, Wolfgang A theorem on elliptic differential inequalities with an application to gradient bounds. **89k:35085**
Xu, Hai Xiang On multiple solutions of quasilinear elliptic equations with parameters. (Chinese. English summary) **89k:35086**
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Aronsson, Gunnar On certain p-harmonic functions in the plane. **89k:31003**
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Aviles, Patricio (*with* McOwen, Robert C.) Complete conformal metrics with negative scalar curvature in compact Riemannian manifolds. **89b:58224**
— (*with* McOwen, Robert C.) Conformal deformation to constant negative scalar curvature on noncompact Riemannian manifolds. **89b:58225**
Babin, A. V. (*with* Vishik, M. I.) Variation of the index of instability on stationary curves of elliptic equations that depend on a parameter. (Russian. English summary) **89j:35061**
Baek, Jeong-Seon Maximum principles for functionals associated with semilinear elliptic and parabolic problems. **89c:35022**
Barthélemy, L. (*with* Bénilan, P.) Phénomène de couche limite pour la pénalisation d'équations quasi-variationnelles elliptiques avec conditions de Dirichlet au bord. [The boundary layer phenomenon for the penalization of elliptic quasivariational equations with Dirichlet boundary conditions] **89f:35089**
Bartnik, Robert Maximal surfaces and general relativity. **89g:58047**
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Bhattacharya, Tilak Radial symmetry of the first eigenfunction for the p-Laplacian in the ball. **89k:35177**
Bobisud, L. E. (*with* Stakgold, I.) Dead cores in nonlinear reaction-diffusion systems. **89b:35069**
Bonnans, J. Frédéric (*with* Casas Rentería, Eduardo) Contrôle de systèmes elliptiques semilinéaires comportant des contraintes sur l'état. (English summary) [Control of semilinear elliptic systems with state constraints] **89d:49022**
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— (*with* Nanbu, Tokumori) Correction to our paper: "Existence of nonnegative solutions of some semilinear elliptic equations". **89j:35017b**

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35J85 Unilateral problems; variational inequalities [see also 35R35, 49A29]

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— On the existence of solutions of the Cauchy problem and of linear boundary value problems for a second-order parabolic equation in an unbounded domain. II. **89i:35075**

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Osada, Hirofumi Diffusion processes with generators of generalized divergence form. **89e:60183**

Repnikov, V. D. Asymptotic behavior of the solutions of parabolic equations with coefficients that depend on time. (Russian) **89k:35038**

Serizawa, Hisamitsu A semigroup treatment of a one-dimensional nonlinear parabolic equation. **89k:35110**

Tran Quyet Thang Cauchy's problem for second order parabolic equations with random parameter. **89k:35257**

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35K20 Second-order equations, boundary value problems

Aref'ev, V. N. On the smoothness of the solutions of second-order parabolic equations with discontinuous coefficients. (Russian) **89g:35044**

Brenner, Howard *see* **Nitsche, Ludwig C.; et al., 89c:35074**

Donato, Santi A nonhomogeneous problem for a class of singular parabolic equations. (Italian) **89e:35065**

Ègamberdiev, U. A boundary value problem for parabolic equations with discontinuous coefficients. (Russian) **89i:35073**

Garofalo, Nicola (*with* Lanconelli, Ermanno) Wiener's criterion for parabolic equations with variable coefficients and its consequences. **89k:35104**

Glushchenko, O. B. *see* **Taraborkin, L. A., 89d:35075**

Grincevičius, R. On the solution of a second-order parabolic equation in a domain with an irregular boundary. (Russian) **89d:35074**

Kamynin, L. I. On the existence of solutions of the Cauchy problem and of linear boundary value problems for a second-order parabolic equation in an unbounded domain. I. (Russian) **89i:35074**

— On the existence of solutions of the Cauchy problem and of linear boundary value problems for a second-order parabolic equation in an unbounded domain. II. **89i:35075**

Kannai, Yakar Existence and smoothness for certain degenerate parabolic boundary value problems. **89h:35142**

Lanconelli, Ermanno *see* **Garofalo, Nicola, 89k:35104**

Lopushanskaya, G. P. Solution of the first boundary value problem for a second-order parabolic equation in a space of generalized functions. (Russian) **89h:35143**

Mukhtarov, O. Sh. A mixed problem for parabolic equations with conjugation conditions. (Russian) **89g:35045**

Nazarov, A. I. Estimates for Hölder constants for solving an initial-boundary value problem with an oblique derivative for a parabolic equation. (Russian. English summary) **89g:35046**

Nguen Tkhan' Nam A problem with an oblique derivative for an equation of parabolic type. **89c:35073**

Nitsche, Johannes M. *see* **Nitsche, Ludwig C.; et al., 89c:35074**

Nitsche, Ludwig C. (*with* Nitsche, Johannes M.; Brenner, Howard) Existence, uniqueness and regularity of a time-periodic probability density distribution arising in a sedimentation-diffusion problem. **89c:35074**

Taraborkin, L. A. (*with* Glushchenko, O. B.) Mixed nonlinear problems for parabolic equations with nonstationary boundary conditions and conjugation conditions. (Russian) **89d:35075**

Zhitarashu, N. V. L_2-theory of the generalized solutions of general linear model parabolic boundary value problems. **89c:35075**

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Anikonov, Yu. E. (*with* Bubnov, B. A.) Existence and uniqueness of the solution of an inverse problem for a parabolic equation. **89f:35196**

Brzychczy, S. Existence of solutions for nonlinear systems of differential-functional equations of parabolic type in an arbitrary domain. **89b:35162**

Bubnov, B. A. *see* **Anikonov, Yu. E., 89f:35196**

Bunkin, F. V. (*with* Galaktionov, V. A.; Kirichenko, N. A.; Kurdyumov, S. P.; Samarskiĭ, A. A.) A nonlinear boundary value problem of ignition by radiation. (Russian) **89d:80008**

Butuzov, V. F. *see* **Vasil'eva, A. B., 89b:35010**

Colli, Pierluigi Some remarks on a problem of percolation in gently sloping beaches. (Italian summary) **89c:35155**

Dzhalilov, K. A. The Harnack inequality for solutions of second-order nonuniformly degenerate parabolic equations in divergence form. (Russian. English and Azerbaijani summaries) **89m:35122**

Galaktionov, V. A. *see* **Bunkin, F. V.; et al., 89d:80008**

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Kurdyumov, S. P. *see* **Bunkin, F. V.; et al., 89d:80008**

Okumura, Hirozo Boundary value problems and eigenvalue problems for second order equations with nonnegative characteristic form. **89m:35063**

Pawell, Angela Solvability of a general free-boundary problem for the diffusion equation. **89e:35147**

Pirmamedov, V. G. (*with* Sapozhnikov, M. E.) Existence and uniqueness of a generalized solution of a problem of Stefan type. (Russian. English and Azerbaijani summaries) **89h:35356**

Prilepko, A. I. (*with* Solov'ev, V. V.) Solvability theorems and the Rothe method in inverse problems for an equation of parabolic type. I. (Russian) **89g:35116**

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Radkevich, E. V. Conditions for the existence of a transition zone. **89h:35357**

Ratyni, A. K. A boundary value problem for a parabolic equation with unknown coefficients (Russian) (*see* **89c:00008**)

Saliev, A. Investigation of the generalized solution, periodic with respect to time, of a one-dimensional boundary value problem for a class of second-order parabolic equations with a nonlinear operator right-hand side. (Russian) **89a:35023**

Samarskiĭ, A. A. *see* **Bunkin, F. V.; et al., 89d:80008**

Sapozhnikov, M. E. *see* **Pirmamedov, V. G., 89h:35356**

Sarafyan, V. V. (*with* Gevorkyan, U. Z.) Markov processes and boundary value problems for a class of systems of differential equations. (Russian. Armenian summary) **89b:60169**

Shmulev, I. I. Almost periodic solutions of boundary value problems for a second-order linear parabolic equation in a domain that is unbounded with respect to the space variables. (Russian) **89k:35027**

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Vasil'eva, A. B. (*with* Butuzov, V. F.) Boundary layer methods in singularly perturbed partial differential equations. **89b:35010**

Ward, James R., Jr. Bounded and almost periodic solutions of semi-linear parabolic equations. **89h:35035**

35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

Amann, Herbert Parabolic evolution equations and nonlinear boundary conditions. **89e:35066**

Demengel, Françoise (*with* Ghidaglia, Jean-Michel) Discrétisation en temps et variétés inertielles pour des équations d'évolution aux dérivées partielles non linéaires. (English summary) [Time-discretization and inertial manifolds for nonlinear evolution partial differential equations] **89h:35144**

Eidus, D. Asymptotical expansions of solutions of linear parabolic equations as $t \to \infty$. **89d:35076**

Ghidaglia, Jean-Michel *see* **Demengel, Françoise, 89h:35144**

Guidetti, Davide On the asymptotic behavior of solutions of linear nonautonomous parabolic equations. (Italian summary) **89d:35077**

Mestechkina, T. M. The Kolmogorov equation for the solution of the Cauchy problem of a class of linear evolution equations. **89f:35095**

Rivera Rodríguez, Pedro Humberto An evolution problem that is not well posed. (Spanish. English summary) **89h:35145**

Tomisaki, Matsuyo Power order decay of elementary solutions of generalized diffusion equations. **89f:35096**

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Acquistapace, Paolo (*with* Terreni, Brunello) A unified approach to abstract linear nonautonomous parabolic equations. **89e:34099**

Amann, Herbert Dynamic theory of quasilinear parabolic equations. I. Abstract evolution equations. **89j:35072**

Babin, A. V. (*with* Vishik, M. I.) The behavior as $t \to +\infty$ of solutions of nonlinear evolution equations depending on a parameter. **89b:47090**

Balaev, M. K. Higher-order evolution equations of parabolic type. (Russian. English and Azerbaijani summaries) **89k:34110**

Bürger, Reinhard Perturbations of positive semigroups and applications to population genetics. **89b:47057**

Grobbelaar-van Dalsen, Marié Semilinear evolution equations and fractional powers of a closed pair of operators. **89h:47099**

Lunardi, A. Bounded solutions of linear periodic abstract parabolic equations. **89i:47075**

Mitidieri, Enzo (*with* Vrabie, Ioan I.) Existence for nonlinear functional differential equations. **89d:34121**

Polyak, M. B. On one-dimensional Hamiltonian systems of hydrodynamic type with explicit dependence on the space variable. (Russian) **89a:58045**

Sakamoto, Reiko Mixed problems for evolution operators with dominant principal parts in the Volevich-Gindikin sense. **89d:35107**

Šedová, Ľubica Parabolic equations with deviating argument in advance. **89g:35108**

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Vishik, M. I. *see* **Babin, A. V., 89b:47090**

Vrabie, Ioan I. *see* **Mitidieri, Enzo, 89d:34121**

35K25 Higher-order equations, general

Chopik, V. I. Group-theoretic properties of linear equations of parabolic type with nonlinear complementary conditions. (Russian) **89j:35058**

Nishioka, Kunio A stochastic solution of a high order parabolic equation. **89f:35097**

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Alkhutov, Yu. A. Removable singularities of solutions of parabolic equations. **89e:35028**

Atakhodzhaev, M. A. (*with* Ègamberdiev, O. M.) Continuation of the solution of an abstract bicaloric equation. (Russian) **89c:35148**

Borok, V. M. A criterion for the absolute $\bar{c}$-stability of partial differential equations. **89f:35031**

Ègamberdiev, O. M. *see* **Atakhodzhaev, M. A., 89c:35148**

Sobolevskiĭ, P. E. Elliptic and parabolic operators in C. (Russian) **89e:35043**

35K30 Higher-order equations, initial value problems

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El-Sayed, Ahmed M. Initial value problem of a higher order parabolic equation. **89k:35105**

Gamidov, N. M. The Cauchy problem with reverse time flow for an evolution equation. (Russian. English and Azerbaijani summaries) **89h:35146**

Goodman, Jonathan Stability of viscous scalar shock fronts in several dimensions. **89j:35059**

Gorodetskiĭ, V. V. The periodic Cauchy problem for an equation of parabolic type in classes of generalized functions. (Russian) **89f:35098**

Kimura, Masahiro (*with* Otsuka, Ken'ichi) Some remarks on the positivity of fundamental solutions for certain parabolic equations with constant coefficients. **89e:35067**

Nishioka, Kunio A convergence of solutions of an inhomogeneous parabolic equation. **89h:35147**

Otsuka, Ken'ichi On the positivity of the fundamental solutions for parabolic systems. **89d:35078**

— *see also* **Kimura, Masahiro, 89e:35067**

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Kohn, Robert V. (*with* Lowe, Bruce D.) A variational method for parameter identification. (French summary) **89d:93036**

Levenshtam, V. B. Application of the averaging principle to the Cauchy problem for quasilinear parabolic equations with rapidly oscillating principal part. (Russian) **89k:35035**

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35K35 Higher-order equations, boundary value problems

Abdinazarov, S. A nonlocal boundary value problem for a higher-order equation of parabolic type with nonclassical boundary conditions. (Russian) **89d:35079**

Baderko, E. A. A method of potential theory in boundary value problems for $2m$-parabolic equations in a semibounded domain with a nonsmooth lateral boundary. **89e:35068**

Drin', M. M. Correct solvability of parabolic conjugation problems in spaces of increasing functions. (Russian) **89b:35064**

Èĭdel'man, S. D. *see* **Kushits'kiĭ, Ya. S., 89f:35099**

Gagnidze, A. G. Uniqueness of solutions of boundary value problems for parabolic equations and systems. (Russian) (*see* **89j:00030**)

Kadyrov, R. R. Behavior of the solutions of higher-order parabolic equations in a neighborhood of a boundary point. (Russian) **89e:35069**

Kowalski, Tadeusz (*with* Sadkowski, Wawrzyniec) Existence and stability of global classical solutions for a first Fourier problem. **89h:35148**

Kozlov, Vladimir Arkad'evich Coefficients in the asymptotics of the solutions of initial-boundary value parabolic problems in domains with a conic point. **89m:35100**

Kushits'kiĭ, Ya. S. (*with* Èĭdel'man, S. D.) Stabilization of the solutions of boundary value problems for a higher-order model parabolic equation. (Russian. English summary) **89f:35099**

Mukminov, F. Kh. Decrease of the norm of the solution of a mixed problem for a higher-order parabolic equation. (Russian) **89f:35100**

Park, Dong Gun Regularity in time of the solution of parabolic initial-boundary value problem in L^1 space. **89e:35070**

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Tanabe, Hiroki On fundamental solutions of linear parabolic equations of higher order in time and associated Volterra equations. **89g:35047**

Tersenov, S. A. A boundary value problem for a parabolic equation. **89h:35149**

Yagi, Atsushi Evolution operators of parabolic equations in continuous function space. **89m:35101**

Zhitarashu, N. V. On the solvability of a parabolic boundary value problem in the presence of power singularities in the right-hand sides. (Russian) **89e:35071**

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von Below, Joachim Classical solvability of linear parabolic equations on networks. **89e:94021**

Dzhuraev, T. D. (*with* Kadyrov, R. R.) On the asymptotic behavior of solutions of parabolic equations as $t \to \infty$. (Russian) **89h:35042**

Kadyrov, R. R. *see* **Dzhuraev, T. D., 89h:35042**

Park, Dong Gun (*with* Tanabe, Hiroki) On the asymptotic behavior of solutions of linear parabolic equations in L^1 space. **89m:35031**

Sakamoto, Reiko Mixed problems for evolution operators with dominant principal parts in the Volevich-Gindikin sense. **89d:35107**

Suveĭka, I. V. Asymptotic behavior of the solution of a mixed problem with the third boundary condition in an infinite domain with a noncompact boundary for the equation $\partial u/\partial t = \eta\Delta(\partial u/\partial t) + \Delta u$. (Russian) **89c:35021**

Tanabe, Hiroki *see* **Park, Dong Gun, 89m:35031**

Zhitarashu, N. V. L_2-theory of the generalized solutions of general linear model parabolic boundary value problems. **89c:35075**

35K40 Systems, general

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Tuckwell, Henry C. Use of Green's function matrices for systems of diffusion equations. **89f:35101**

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Amann, Herbert Parabolic evolution equations and nonlinear boundary conditions. **89e:35066**

Fel'dman, M. A. Coercive boundary value problems for parabolic overdetermined systems with variable coefficients. (Russian) **89c:35122**

35K45 Systems, initial value problems

van der Merwe, Alna *B*-evolutions and Sobolev equations. **89j:35060**

35K50 Systems, boundary value problems

Kang, Dok Gil On boundary problem of linear parabolic system. (Korean. English summary) (Not in MR)

Talaga, Paul The Hukuhara-Kneser property for quasilinear parabolic equations. **89c:35076**

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Akhundov, A. Ya. An inverse problem for a system of parabolic equations. (Russian) **89k:35247**

Kamin, Shoshana (*with* Ughi, M.) On the behaviour as $t \to \infty$ of the solutions of the Cauchy problem for certain nonlinear parabolic equations. **89m:35029**

Rulla, Jim (*with* Showalter, R. E.) Diffusion with prescribed convection in fissured media. **89b:35171**

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Ughi, M. *see* **Kamin, Shoshana, 89m:35029**

Zhitarashu, N. V. Boundary values of the generalized solutions of systems of parabolic equations. (Russian) **89h:35066**

35K55 Nonlinear equations and systems

Aguirre, J. (*with* Escobedo, M.) A Cauchy problem for $u_t - \Delta u = u^p$ with $0 < p < 1$. Asymptotic behaviour of solutions. (French summary) **89d:35080**

Akhmerov, R. R. On structure of a set of solutions of Dirichlet boundary value problem for stationary one-dimensional forward-backward parabolic equation. **89a:35105**

Amato, Roberto Some regularity results for a class of second-order quasilinear parabolic systems. (Italian. English summary) **89g:35049**

Anderson, Steven P. (*with* Gorman, Arthur D.) Caustics associated with the asymptotic solution of the diffusion equation. **89f:35102**

Angenent, S. B. Local existence and regularity for a class of degenerate parabolic equations. **89e:35072**

— Analyticity of the interface of the porous media equation after the waiting time. **89f:35103**

Aronson, D. G. (*with* Vázquez, Juan Luis) Eventual C^∞-regularity and concavity for flows in one-dimensional porous media. **89d:35081**

Artola, Michel Nonlinear diffusion equations in heterogeneous media. (*see* **89d:00007**)

Avrin, Joel D. Global existence for a model of electrophoretic separation. **89g:35050**

Babin, A. V. (*with* Vishik, M. I.) Variation of the index of instability on stationary curves of elliptic equations that depend on a parameter. (Russian. English summary) **89j:35061**

Bakirova, M. I. (*with* Dimova-Borshukova, Stefka; Dorodnitsyn, V. A.; Kurdyumov, S. P.; Samarskiĭ, A. A.; Svirshchevskiĭ, S. R.) Invariant solutions of the heat equation that describe the directed propagation of combustion and spiral waves in a nonlinear medium. **89i:35076**

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Bensoussan, A. On some parabolic equations arising from ergodic control. **89a:35106**

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— Existence results for doubly nonlinear higher order parabolic equations on unbounded domains. **89j:35062**

Butuzov, V. F. (*with* Urazgil'dina, T. A.) Asymptotic solution of the problem of heat propagation in thin bodies. (Russian) **89a:35108**

— (*with* Vasil'eva, A. B.) On the asymptotic theory of contrasting spatial structures. (Russian) **89d:35082**

Caffarelli, Luis A. (*with* Friedman, Avner) Blowup of solutions of nonlinear heat equations. **89c:35077**

Campanato, S. $L^{2,\lambda}$ theory and nonlinear parabolic systems. **89k:35106**

Chen, Ya Zhe (*with* di Benedetto, E.) On the local behavior of solutions of singular parabolic equations. **89k:35107**

Collet, Pierre (*with* Eckmann, J.-P.) The stability of modulated fronts. **89m:35102**

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Eberly, D. (*with* Troy, William C.) Existence of logarithmic-type solutions to the Kapila-Kassoy problem in dimensions 3 through 9. **89d:35083**

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Ebihara, Yukiyoshi On the semilinear heat equations and wave equations with unbounded coefficient. **89h:35150**

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Esteban, Juan R. (*with* Vázquez, Juan Luis) Homogeneous diffusion in $\mathbf{R}$ with power-like nonlinear diffusivity. **89j:35064**

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Fattorusso, Luisa The differentiability of solutions of second-order parabolic nonlinear systems with quadratic growth. (Italian. English summary) **89b:35065**

Fife, P. C. (*with* Xiao, Ling) The generation and propagation of internal layers. **89c:35078**

Fila, Marek (*with* Filo, Ján) Stabilization of solutions of certain one-dimensional degenerate diffusion equations. (Russian summary) **89m:35105**

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Fitzgibbon, W. E. Longtime solutions for a class of convection diffusion systems. **89k:35108**

Flores, Gilberto A global description of a one-dimensional threshold: the stable manifold of the stationary wave of the Nagumo equation. (Spanish) (*see* **89k:00010**)

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— (*with* Giga, Yoshikazu) A single point blow-up for solutions of semilinear parabolic systems. **89b:35066**

— Blow-up of solutions of nonlinear parabolic equations. **89m:35106**

— (*with* Oswald, Luc) The blow-up time for higher order semilinear parabolic equations with small leading coefficients. **89m:35107**

— *see also* **Caffarelli, Luis A., 89c:35077**

Fusco, Giorgio Describing the flow on the attractor of one-dimensional reaction diffusion equations by systems of ODE. **89c:35080**

Galaktionov, V. A. (*with* Posashkov, S. A.) Estimates for localized unbounded solutions of quasilinear parabolic equations. (Russian) **89e:35073a**

— (*with* Posashkov, S. A.) Unbounded exact solution of the nonlinear heat equation with a source. (Russian. English summary) **89e:35074**

— (*with* Posashkov, S. A.) Letter to the editor: "Estimates for localized unbounded solutions of quasilinear parabolic equations". (Russian) **89e:35073b**

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— (*with* Herrero, M. A.) Localization and blow-up of thermal waves in nonlinear heat conduction with peaking. **89m:35108**

Gmira, Abdelilah Existence de la trace initiale pour des solutions d'une équation parabolique dégénérée. (English summary) [Existence of an initial trace for solutions of a degenerate parabolic equation] **89g:35053**

Gorman, Arthur D. *see* **Anderson, Steven P., 89f:35102**

Grundy, R. E. (*with* Peletier, L. A.) Short time behaviour of a singular solution to the heat equation with absorption. **89b:35067**

Harabetian, Eduard Rarefactions and large time behavior for parabolic equations and monotone schemes. **89d:35084**

Hayasida, Kazuya On the regularity properties for solutions of the Cauchy problem for the porous media equation. **89m:35109**

Herrero, M. A. (*with* Vázquez, Juan Luis) Thermal waves in absorbing media. **89i:35077**

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Ivanov, Aleksandr Vasil'evich Hölder estimates for second-order quasilinear degenerate parabolic systems. (Russian. English summary) **89g:35054**

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Kamin, Shoshana (*with* Peletier, L. A.; Vázquez, Juan Luis) Classification de solutions singulières à l'origine pour une équation de la chaleur non linéaire. (English summary) [Classification of singular solutions of a nonlinear heat equation] **89d:35085**

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Krupkin, P. L. Localization of the solutions of an equation of stimulated diffusion. (Russian) **89m:35110**

Krylov, N. V. Some new results in the theory of nonlinear elliptic and parabolic equations. **89i:35078**

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Maddalena, Lucia Existence, uniqueness and qualitative properties of the solution of a degenerate nonlinear parabolic system. **89d:35087**

Maksimova, N. O. A theorem of Phragmén-Lindelöf type for generalized solutions of quasilinear parabolic equations of nonstationary filtration type. (Russian) **89h:35151**

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Otwinowski, M. (*with* Paul, Reginald; Laidlaw, W. G.) Exact travelling wave solutions of a class of nonlinear diffusion equations by reduction to a quadrature. **89f:35106**

Palais, Bob Blowup for nonlinear equations using a comparison principle in Fourier space. **89c:35083**

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Pluschke, Volker Local solution of parabolic equations with strongly increasing nonlinearity by the Rothe method. **89k:35109**

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Qin, Yu An initial-boundary value problem for a generalized diffusion model in population theory. (Chinese. English summary) **89i:35079**

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Friedman, Avner (*with* Huang, Shao Yun; Yong, Jiong Min) Optimal periodic control for the two-phase Stefan problem. **89a:49036**
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35L15 Second-order equations, initial value problems

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35L20 Second-order equations, boundary value problems

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35L60 First-order nonlinear equations and systems

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Curtis, W. D. Global uniformly expanding finite amplitude waves. **89d:35111**

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Nohel, John A. *see* **Renardy, Michael; et al., 89b:35134**

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Zuazua, Enrike Stability and decay for a class of nonlinear hyperbolic problems. **89f:35037**

35L75 Higher (> 2) order nonlinear equations and systems

Alinhac, S. Interaction d'ondes simples pour des équations complètement non-linéaires. [Simple wave interaction for completely nonlinear equations] **89a:35139**

— Interaction d'ondes simples pour des équations complètement non-linéaires. [Simple wave interaction for completely nonlinear systems] **89h:35220**

Bhutani, O. P. (*with* Mital, Poornima) Symmetry method for the solution of fourth order nonlinear wave equation. **89d:35118**

Chemin, J.-Y. Interactions totalement non linéaires. [Totally nonlinear interactions] **89c:35109**

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Chen, Shu Xing Regularity estimates for solutions of semilinear hyperbolic equations of higher space dimensions. **89d:35119**

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35L80 Equations and systems of degenerate type

Andriyanova, N. A. On the existence and uniqueness of the solution of a problem with shift for the Euler-Poisson-Darboux equation of hyperbolic type with negative parameters. (Russian) (*see* **89f:35006**)

Azovskiĭ, V. V. (*with* Volik, V. G.) Two problems for a third-order hyperbolic equation. (Russian) (*see* **89f:35006**)

Bochkarev, A. D. Solution of a problem with nonlocal boundary conditions for an equation of hyperbolic type with a coefficient that has a first-order singularity in the interior of the domain. (Russian) (*see* **89f:35006**)

Chakhvadze, È. Sh. The Cauchy problem for a class of quasilinear equations. (Russian. English and Georgian summaries) **89c:35110**

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Khaĭrullin, R. S. A problem for the equation $u_{tt} - (u_t/t) - u_{xx} = 0$. (Russian) (*see* **89f:35006**)

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— Representation of a manifold of solutions, and boundary value problems for a class of second-order linear hyperbolic systems with an interior singular line. **89m:35145**

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35L85 Unilateral problems; variational inequalities [see also 35R35, 49A29]

Aliev, A. B. A one-sided problem for a class of quasilinear hyperbolic operators. (Russian. English and Azerbaijani summaries) **89e:35104**

— Variational inequalities for quasilinear operators of hyperbolic type. (Russian) **89c:35113**

— Unilateral problems for quasilinear hyperbolic operators in function spaces. **89b:35101**

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D'Acunto, B. (*with* D'Anna, A.; Renno, P.) On the motion of a viscoelastic solid in the presence of a rigid wall. II. Impact laws for the hereditary case. Solution of the unilateral problem. **89e:73017**

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Renno, P. *see* **D'Acunto, B.; et al., 89e:73017**

35L99 None of the above, but in this section

Akiyama, Shinji *see* **Koga, Shinji, 89m:35148**

Bamberger, A. (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Parabolic wave equation approximations in heterogenous media. **89h:35225**

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Chukbar, K. V. A universal wave equation with a nonlocal nonlinearity. **89m:35147**

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Lu, Zhu Jia A strong maximum principle for a family of singular hyperbolic operators. **89m:35035**
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Mazumdar, Tapas Minimization, over selected convex sets, of a noncoercive cost functional for hyperbolic systems. (Portuguese summary) **89d:49023**
Migorski, S. *see* **Denkowski, Z., 89b:49005**
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Rong, Yue Tang Mean value formulas for nonhomogeneous ultrahyperbolic equations and their applications. (Chinese. English summary) **89e:35009**
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35M05 Equations and systems of mixed (Tricomi, etc.) or composite type {For degenerate types, elliptic, see 35Jxx, parabolic, see 35Kxx, hyperbolic, see 35Lxx, etc.}

Abdrakhmanov, M. A. Estimates for the solution of an initial-boundary value problem for a system of equations of elliptic-parabolic type in Sobolev classes. (Russian. Kazakh summary) **89m:35150**
— Energy inequalities and theorems for the solvability of the first boundary value problem for a parabolic-elliptic system of two equations. (Russian) **89m:35151**
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Kadyrov, Z. A boundary value problem with discontinuous gluing conditions for an equation of mixed type with nonsmooth lines of degeneracy. (Russian) **89e:35109**
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Nevostruev, L. M. (*with* Renner, A. G.) Well-posed weight problems for some classes of fourth-order degenerate equations of mixed-composite type. (Russian) (*see* **89c:00005**)

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— (*with* Urinov, A. K.) On a problem of Tricomi type for an equation of mixed type with nonsmooth lines of degeneracy. (Russian) **89e:35114**

— (*with* Urinov, A. K.) Boundary value problems in a doubly connected domain for an equation of mixed type with a nonsmooth line of degeneration. (Russian) (*see* **89j:00030**)

— (*with* Amanov, D.) The Poincaré-Tricomi problem for an equation of mixed type with discontinuous coefficients. (Russian) **89c:35119**

— (*with* Islomov, B.) The Tricomi problem for a general linear equation of mixed type with a nonsmooth line of degeneracy. (Russian) **89d:35124**

— (*with* Makhul, Ketra) A boundary value problem for the generalized Tricomi equation. (Russian) **89a:35149**

— (*with* Urinov, A. K.) A nonlocal boundary value problem in a doubly connected domain for an equation of mixed type with nonsmooth lines of degeneracy. **89f:35150**

Saltykova, N. M. The Bitsadze-Samarskiĭ boundary value problem for an equation of mixed type of the second kind with a discontinuous-continuous gluing condition. (Russian) (*see* **89f:35006**)

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— Strongly well-posed nonlinear initial-boundary value problems for quasilinear hyperbolic-parabolic coupled systems. (Chinese. English summary) **89g:35077**

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Usanetashvili, M. A. Solvability of a problem with a directional derivative for an equation of mixed type. (Russian) (*see* **89j:00030**)

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Chibrikova, L. I. (*with* Pleshchinskii, N. B.) Integral equation with generalized power kernel and its application to the theory of boundary value problems for the generalized Tricomi equation. **89b:45005**

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Cosner, Chris (*with* Lenhart, Suzanne M.; Protopopescu, V.) Transport equations with second-order differential collision operators. **89h:35283**

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Dzhuraev, A. D. Degenerate elliptic and first-order mixed-type systems in a plane. **89e:35060**

— Some boundary value problems for second-order elliptic systems of mixed type in a plane. **89f:35087**

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Gamidov, N. M. The Cauchy problem with reverse time flow for an evolution equation. (Russian. English and Azerbaijani summaries) **89h:35146**

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Koltunovskiĭ, O. A. A nonlocal problem for a third-order partial differential equation. (Russian) **89m:35048**

Kurbatova, N. M. Boundary value problems for two first-order systems. (Russian. English and Lithuanian summaries) **89h:35069**

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Malyshev, Igor On the inverse problem for a heat-like equation. **89e:35145**

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Pawłow, Irena *see* **Kenmochi, Nobuyuki, 89d:35187**

Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**

— *see also* **Chibrikova, L. I., 89b:45005**

Popivanov, N. I. Well-posedness of some nonlocal boundary value problems in three-dimensional domains. (Russian) **89g:35062**

Protopopescu, V. *see* **Cosner, Chris; et al., 89h:35283**

Radzhabov, Kh. M. The asymptotic behavior of solutions of a nonclassical system of partial differential equations as $t \to \infty$. (Russian. Tajiki summary) **89h:35045**

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Shakhmurov, V. B. Embedding theorems and their applications to degenerate equations. **89g:46069**

Shkalikov, A. A. Strongly damped operator pencils and the solvability of the corresponding operator-differential equations. **89i:47023**

Slemrod, M. A limiting “viscosity” approach to the Riemann problem for materials exhibiting change of phase. **89m:35186**

Teut, O. M. A problem for a system of hyperbolic type. (Russian) **89e:35089**

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35Nxx Overdetermined systems [see also 58G05, 58G07, 58Hxx]

35N05 Constant coefficients

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Berenstein, Carlos A. On an overdetermined Neumann problem. (*see* **89f:32001**)

35N10 Variable coefficients, general

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Kholov, N. A. Solvability of an overdetermined system of linear differential equations in a space of almost periodic functions. (Russian. Tajiki summary) **89h:35239**

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Jacobowitz, Howard Systems of homogeneous partial differential equations with few solutions. **89j:35043**

Perthame, Benoît (*with* Sanders, Richard) The Neumann problem for nonlinear second order singular perturbation problems. **89d:35012**

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Yang, Deane Involutive hyperbolic differential systems. **89b:58232**

35N15 $\bar\partial$-Neumann problem and generalizations; formal complexes [see also 32Fxx and 58G05]

Chen, So-Chin Global analytic hypoellipticity of the $\bar\partial$-Neumann problem on circular domains. **89h:35240**
— Global real analyticity of solutions to the $\bar\partial$-Neumann problem. **89g:35079**
Christ, Michael Pointwise estimates for the relative fundamental solution of $\bar\partial_b$. **89d:35126**
Derridj, Makhlouf (*with* Tartakoff, David S.) Local analyticity for $\Box_b$ and the $\bar\partial$-Neumann problem at certain weakly pseudoconvex points. **89m:35158**
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Beals, Richard (*with* Stanton, Nancy K.) The heat equation for the $\bar\partial$-Neumann problem. II. **89e:58112**
Bierstone, Edward (*with* Milman, Pierre D.) Ideals of holomorphic functions with C^∞ boundary values on a pseudoconvex domain. **89c:32042**
Boas, Harold P. Small sets of infinite type are benign for the $\bar\partial$-Neumann problem. **89g:32026**
Bruna, Joaquim (*with* Burgués i Badia, Josep Ma.) Holomorphic approximation and estimates for the $\bar\partial$-equation on strictly pseudoconvex nonsmooth domains. **89g:32024**
Burgués i Badia, Josep Ma. *see* **Bruna, Joaquim, 89g:32024**
Catlin, David W. Regularity of solutions of the $\bar\partial$-Neumann problem. **89i:32040**
— A Newlander-Nirenberg theorem for manifolds with boundary. **89j:32026**
Chang, Der-Chen E. (*with* Nagel, Alexander; Stein, E. M.) Estimates for the $\bar\partial$-Neumann problem for pseudoconvex domains in $\mathbf{C}^2$ of finite type. **89i:32041**
— Optimal L^p and Hölder estimates for the Kohn solution of the $\bar\partial$-equation on strongly pseudoconvex domains. **89m:32033**
Chaumat, Jacques (*with* Chollet, Anne-Marie) Noyaux pour résoudre l'équation $\bar\delta u=v$ dans des classes indéfiniment différentiables. (English summary) [Kernels to solve the equation $\bar\delta u=v$ in infinitely differentiable classes] **89i:32036**
Chen, So-Chin Global real analyticity of solutions to the $\bar\partial$-Neumann problem on Reinhardt domains. **89i:32042**
Chollet, Anne-Marie *see* **Chaumat, Jacques, 89i:32036**
Cordaro, P. On the range of the Lewy complex. **89c:32052**
Derridj, Makhlouf (*with* Tartakoff, David S.) Analyticité locale pour le problème $\bar\partial$-Neumann en des points de faible pseudoconvexité. (English summary) [Local analyticity for the $\bar\partial$-Neumann problem at some weakly pseudoconvex points] **89k:32037**
Fefferman, Charles (*with* Kohn, Joseph J.) Hölder estimates on domains of complex dimension two and on three-dimensional CR manifolds. **89g:32027**
Jakóbczak, Piotr The local boundary regularity of the solution of the $\bar\partial$-equation. **89e:32024**
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Krantz, Steven G. Compactness of the $\bar\partial$-Neumann operator. **89f:32032**
Lieb, Ingo (*with* Range, R. Michael) The kernel of the $\bar\partial$-Neumann operator on strictly pseudoconvex domains. **89d:32044**
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Novikov, R. G. (*with* Khenkin, G. M.) The $\bar\partial$-equation in the multidimensional inverse scattering problem. (Russian) **89d:35043**
Range, R. Michael Integral representations in the theory of the $\bar\partial$-Neumann problem. **89g:32028**
— *see also* **Lieb, Ingo, 89d:32044**
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35N99 None of the above, but in this section

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Serova, V. D. Propagation of weak contact discontinuities along the bicharacteristics of equations of gas dynamics. **89e:76067**

35Pxx Spectral theory and eigenvalue problems [see also 47Axx, 47Bxx, 47F05]

Items with secondary classifications in 35Pxx

Edmunds, D. E. (*with* Evans, W. D.) ★ Spectral theory and differential operators. **89b:47001**
Evans, W. D. *see* **Edmunds, D. E., 89b:47001**
Ezawa, Hiroshi What kinds of problems should physics consider? (Japanese) **89b:81231**
Pöschel, Jürgen (*with* Trubowitz, Eugene) ★ Inverse spectral theory. **89b:34061**
Trubowitz, Eugene *see* **Pöschel, Jürgen, 89b:34061**

35P05 General spectral theory

Bennett, Donna Marie An extension of Rellich's inequality. **89m:35159**
Birman, M. Sh. The Maxwell operator for a periodic resonator with inward edges. (Russian) **89m:35160**
Brenner, Terence The spectra of certain elliptic operators in $\mathbf{R}^N$. **89k:35162**
Briet, Ph. *see* **Combes, J. M.; et al., 89a:35150**
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35Qxx Special equations and problems [see also 35J05, 35K05, 35L05]

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35Q05 Euler-Poisson-Darboux equation and generalizations

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Khe Kan Cher On the singular Cauchy problem for an equation with the Euler-Poisson-Darboux multiple differential operator. (Russian) **89f:35162**
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Milyakov, V. P. Some boundary value problems for an incomplete Euler-Poisson-Darboux equation in special asymptotic classes. (Russian) (*see* **89f:35006**)
Nikol'skaya, L. N. A uniqueness theorem for the solution of a problem with a local and a nonlocal boundary condition for the Euler-Darboux equation with positive parameters. (Russian) **89h:35222**
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— On the stationary motion of granulated media. **89a:35161**
Bemelmans, Josef Free boundary problems for the Navier-Stokes equations. **89k:35179**
Borchers, Wolfgang (*with* Miyakawa, Tetsuro) L^2 decay for the Navier-Stokes flow in halfspaces. **89k:35180**
Brefort, B. (*with* Ghidaglia, Jean-Michel; Temam, Roger) Attractors for the penalized Navier-Stokes equations. **89b:35135**
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Chichinadze, R. K. Boundary value problems for the Stokes equations in the case of a domain with a spherical boundary. (Russian) **89a:35162**
Chichoyan, S. F. Smoothness of generalized solutions of the Dirichlet problem for the Navier-Stokes equation in nonsmooth two-dimensional domains. (Russian) **89d:35139**
Chossat, P. (*with* Demay, Y.; Iooss, G.) Competition of azimuthal modes and quasiperiodic flows in the Couette-Taylor problem. **89m:35176**
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Zhdanov, R. Z. *see* **Fushchich, V. I., 89j:81026** *and* **89m:81075**

Zhelobenko, D. P. Transvector algebras in representation theory and dynamic symmetry. **89i:22032**

Zhou, Zi Xiang On the Darboux transformation for 1 + 2-dimensional equations. **89h:58218**

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New developments in the theory and application of solitons ★ New developments in the theory and application of solitons. **89a:00034**

35Q99 None of the above, but in this section

Angermann, L. Die Grundgleichungen der inneren Elektronik—ein Evolutionsproblem im Banach-Raum. (English and Russian summaries) [The basic equations of inner electronics—an evolution problem in Banach space] **89c:35147**

Barcilon, Victor (*with* Constantin, Peter; Titi, E. S.) Existence of solutions to the Stommel-Charney model of the Gulf Stream. **89k:35241**

Bardos, Claude (*with* Sulem, C.; Sulem, P.-L.) Longtime dynamics of a conductive fluid in the presence of a strong magnetic field. **89b:35154**

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Kaufman, Allan N. (*with* Friedland, Lazar) Phase-space solution of the linear mode-conversion problem. **89f:35190**

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Kolokol′tsov, V. N. (*with* Maslov, V. P.) The Cauchy problem for the homogeneous Bellman equation. **89g:35106**

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Malec, Edward The absence of small solutions of nonlinear field equations. **89b:35159**

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Red′ko, S. E. *see* **Lyashko, S. I., 89b:35158**

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Sablé-Tougeron, Monique Existence pour un problème de l'élastodynamique Neumann non linéaire en dimension 2. [Existence for a two-dimensional nonlinear Neumann elastodynamics problem] **89f:35191**

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Smith, William V. "Transient waves" in singular anisotropic homogeneous media. **89m:35206**

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Wang, Yu Peng (*with* Pu, Fu Ke) A hyperalgebra treatment of a three-wave interaction model. (Chinese) (Not in MR)

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Agase, S. B. Existence and stability of mild solutions of semilinear differential equations in locally convex spaces. **89b:34146**

Aramaki, Junichi On the asymptotic behaviors of the spectrum of quasi-elliptic pseudodifferential operators on $\mathbf{R}^n$. **89d:35132**

Baker-Jarvis, James *see* **Inguva, Ramarao, 89a:81162**

Busenberg, Stavros (*with* Cooke, Kenneth; Iannelli, Mimmo) Endemic thresholds and stability in a class of age-structured epidemics. **89k:92048**

Caffarelli, Luis A. (*with* Friedman, Avner) A model of dislocations and the associated free boundary problem. **89h:35348**

Caviglia, Giacomo (*with* Morro, A.) Conservation laws in anisotropic elastostatics. **89i:73017**

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Chikhanov, Kh. A. Group analysis of some fourth-order equations. (Russian) **89h:35016**

Christiansen, P. L. Coherent excitations in some physical and biochemical systems. **89a:92080**

Colombeau, J.-F. (*with* LeRoux, A. Y.) Multiplications of distributions in elasticity and hydrodynamics. **89b:46056**

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Costabel, M. (*with* Stephan, E. P.) Strongly elliptic boundary integral equations for electromagnetic transmission problems. **89k:35066**

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Demidenko, G. V. The Cauchy problem for equations and systems of Sobolev type. (Russian) **89b:35136**

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Embid, Pedro The initial value problem for the nonlinear equations for zero Mach number combustion. **89c:80019**

Estabrook, Frank B. Covariance and the hierarchy of frame bundles. **89c:58007**

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Fuchs, J. C. (*with* Richter, E. W.) Similarity solutions for the two-dimensional nonstationary ideal MHD equations. **89a:76057**

Gao, Hang L^2-solutions and regular generalized solutions of a class of integro-partial differential equations with variable parameter. (Chinese. English summary) **89e:45010**

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Henry, Jacques (*with* Sadikou, Y.; Yvon, J. P.) Identification of parameters in diffusion convection models: application to the analysis of blood flow in digital subtraction angiography. (*see* **89j:00028**)

Hoàng Văn Tao The method of the small parameter in problems on the collapse of a dam. (Russian. English summary) **89c:76041**

Hrusa, William J. (*with* Renardy, Michael) An existence theorem for the Dirichlet problem in the elastodynamics of incompressible materials. **89i:35096**

Iannelli, Mimmo *see* **Busenberg, Stavros; et al., 89k:92048**

Imaeda, K. (*with* Tachibana, H.; Imaeda, M.; Ohta, Susumu) Solutions of the octonion wave equation and the theory of functions of an octonion variable. (Italian and Russian summaries) **89a:81044**

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Inguva, Ramarao (*with* Baker-Jarvis, James) Principle of maximum entropy and inverse scattering problems. **89a:81162**

Kocheshkov, G. V. Correctness of a mathematical model for a magnetohydrodynamic thermophysical process. (Russian. English summary) **89d:80014**

LeRoux, A. Y. *see* **Colombeau, J.-F., 89b:46056**

Lesky, P., Jr. Resonanzeffekte bei partiellen Differentialgleichungen höherer Ordnung in Wellenleitern. [Resonance effects for higher-order partial differential equations in waveguides] **89k:35034**

Li, Lige On the uniqueness and ordering of steady states of predator-prey systems. **89j:92066**

Liang, Jin Reaction-diffusion systems without the quasimonotonicity condition. (Chinese. English summary) **89h:35160**

Majda, A. (*with* Rosales, R.) Nonlinear mean field-high frequency wave interactions in the induction zone. **89c:80023**

Makarov, K. A. Boundary layer of the eigenfunctions of a diffusion operator. (Russian) **89c:35018**

Makin, R. S. (*with* Shikhov, S. B.) Completeness of the system of eigenfunctions of the multigroup diffusion approximation of a conditional-critical problem with a homogeneous active zone and an arbitrary reflector. (Russian) **89c:47060**

Manton, N. S. (*with* Samols, T. M.) Sphalerons on a circle. **89g:81086**

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— A Goursat problem for a polyvibrating equation of Mangeron. **89h:35228**

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Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**

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Xin, Yuan Long Conservation laws and a theorem on the vanishing of harmonic forms. (Chinese) (Not in MR)

Yakhno, V. G. *see* **Vasil'ev, V. A.; et al., 89c:92001**

Ye, Qi Xiao (*with* Wang, Ming Xin^2) Travelling wave front solutions of Noyes-Field system for Belousov-Zhabotinskiĭ reaction. **89e:80019**

Yvon, J. P. *see* **Henry, Jacques; et al.**, (**89j:00028**)

Zhdanova, G. V. Asymptotic behavior of the solution of the Dirichlet problem for a system of elasticity theory in the exterior of a thin solid of revolution. **89a:35026**

Zhura, N. A. (*with* Soldatov, A. P.) A mixed-contact problem in the plane theory of elasticity in domains with a piecewise smooth boundary. **89b:73012**

35Rxx Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

35R05 Equations with discontinuous coefficients or data

Agakhanov, N. Kh. Properties of the solutions of conjugation problems for some irregular equations. (Russian) **89a:35219**

Cibulis, A. On the passage to the limit in a system of elliptic equations with smoothing of discontinuous nonlinearities. (Russian) **89m:35207**

— The solvability of a parabolic equation with discontinuous nonlinearities. (Russian) **89m:35208**

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Ègamberdiev, U. A boundary value problem for parabolic equations with discontinuous coefficients. (Russian) **89i:35073**

Koshelev, A. I. Smoothness of the solutions of some nonlinear boundary value problems for equations with nondifferentiable coefficients. **89f:35068**

Kufner, A. (*with* Sändig, Anna-Margarete) ★ Some applications of weighted Sobolev spaces. **89h:35096**

Lamm, Patricia K. (*with* Murphy, K. A.) Estimation of discontinuous coefficients and boundary parameters for hyperbolic systems. **89d:35110**

Li, Zi-Cai A note on Kellogg's eigenfunctions of a periodic Sturm-Liouville system. (Not in MR)

Lieberman, Gary M. Oblique derivative problems in Lipschitz domains. II. Discontinuous boundary data. **89h:35094**

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Nuñez, Manuel On a class of partial differential equations with singular coefficients. **89k:35068**

Rauch, J. Explosion for some semilinear wave equations. **89k:35022**

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Transirico, Maria (*with* Troisi, Mario) Second-order elliptic equations with discontinuous coefficients and of variational type in unbounded open subsets. (Italian. English summary) **89f:35065**

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Zecca, Pasquale A new existence theorem for an elliptic equation with discontinuous nondifferential coefficients. (Italian. English summary) **89g:35034**

35R10 Difference-partial differential equations, equations with time lag

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Badii, M. (*with* Díaz Díaz, Jesús Ildefonso; Tesei, Alberto) Existence and attractivity results for a class of degenerate functional-parabolic problems. **89h:35325**

Brzychczy, S. Existence of solutions for nonlinear systems of differential-functional equations of parabolic type in an arbitrary domain. **89b:35162**

Bykov, Ya. V. (*with* Temirov, B. K.) Oscillation of solutions of a class of nonlinear differential-difference equations. (Russian) **89m:35209**

Díaz Díaz, Jesús Ildefonso *see* **Badii, M.; et al., 89h:35325**

Kamont, Z. (*with* Turo, Jan) A boundary value problem for quasilinear hyperbolic systems with a retarded argument. **89b:35163**

Karakostas, G. (*with* Staikos, V. A.) μ-like-continuous operators and some oscillation results. **89k:35243**

Kraśnicka, Barbara On some properties of solutions to the first Fourier problem for infinite system of parabolic differential-functional equations in an arbitrary domain. **89j:35126**

Kukhta, G. P. Asymptotic behavior of the solution of the generalized heat equation. (Russian) **89j:35127**

Šedová, Ľubica Parabolic equations with deviating argument in advance. **89g:35108**

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Staikos, V. A. *see* **Karakostas, G., 89k:35243**

Straburzyński, Jan On the existence, uniqueness and continuous dependence of solutions the Goursat problem for differential-functional equations of hyperbolic type. **89f:3519**

— On the convergence of successive approximations for functional-differential equations hyperbolic type. **89i:35123**

Temirov, B. K. *see* **Bykov, Ya. V., 89m:35209**

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Turo, Jan Existence and uniqueness of solutions of quasilinear hyperbolic systems of part differential-functional equations. (Russian summary) **89b:35164**

— Generalized solutions of the Cauchy problem for a nonlinear functional partial differential equation. (German and Russian summaries) **89m:35210**

— *see also* **Kamont, Z., 89b:35163**

Voigt, W. Two-sided estimations for nonlinear parabolic systems with functionals. (Germ and Russian summaries) **89a:35220**

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Busenberg, Stavros (*with* Mahaffy, J. M.) The effects of dimension and size for a compar mental model of repression. **89m:92013**

Bykov, Ya. V. (*with* Kultaev, T. Ch.) Asymptotic behavior of the solutions of a class of partial differential equations of second order with respect to the space variable and of higher order with respect to the time variable with retarded argument. (Russian) **89g:35009**

Gorshkova, O. Ya. *see* **Avdonin, S. A., 89e:93014**

Gromyak, M. I. Construction of periodic solutions of second-order wave differential and integro-differential equations. **89e:35014**

Hu, Bei Periodic solutions of the parabolic Bellman equation and their stability. (Chinese English summary) **89i:35008**

Kalyakin, L. A. Asymptotic transitions from discrete to continuous models. **89k:35215**

Kartsatos, Athanassios G. (*with* Parrott, M. E.) The weak solution of a functional-differential equation in a general Banach space. **89k:34134**

Kocić, Vlajko Lj. On the generalized Riccati equation. (Serbo-Croatian summary) **89j:39008**

Kultaev, T. Ch. Oscillability of the solutions of some systems of partial differential equatio with retarded argument. (Russian) **89g:35010**

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Lu, Qi Shao Bifurcation and stability of periodic solutions of a class of nonlinear evolutio equation. **89g:35015**

Mahaffy, J. M. *see* **Busenberg, Stavros, 89m:92013**

Mishev, D. P. (*with* Baĭnov, D. D.) Oscillation of the solutions of parabolic differential equations of neutral type. **89h:35025**

Mitidieri, Enzo (*with* Vrabie, Ioan I.) Existence for nonlinear functional differential equations. **89d:34121**

Nakagiri, Shinichi Structural properties of functional-differential equations in Banach spaces. **89k:47060**

Parrott, M. E. *see* **Kartsatos, Athanassios G., 89k:34134**

Voronina, N. V. Approximate solution of integro-partial differential equations with autocontrol. (Russian) (*see* **89b:00008**)

Vrabie, Ioan I. *see* **Mitidieri, Enzo, 89d:34121**

Ward, James R., Jr. Bounded and almost periodic solutions of semi-linear parabolic equations. **89h:35035**

Yamazaki, Susumu On linear and exponential type nonlinear lattices. **89h:82057**

Zhou, Li The periodic solution for a periodic nonlinear reaction-diffusion equation with time delay. (Chinese. English summary) **89h:35034**

35R15 Equations on function spaces [see also 58D25]

Bogdanskiĭ, Yu. V. The maximum principle for a nonregular elliptic differential equation i a countable-dimensional Hilbert space. **89g:35109**

Ktitarev, D. V. A formula of Feynman for systems of pseudodifferential equations in infinite-dimensional spaces. **89i:35124**

Taylor, Thomas J. On the Wiener semigroup and harmonic analysis on the infinite-dimensional torus. **89f:35193**

Us, G. F. The infinite-dimensional Laplace operator in a space with Gaussian measure. (Russian) **89h:35326**

Zadorozhniĭ, V. G. Solution of some equations with variational derivatives. (Russian) **89d:35177**

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Albanese, C. (*with* Fröhlich, Jürg; Spencer, Thomas Crawford) Periodic solutions of som infinite-dimensional Hamiltonian systems associated with nonlinear partial difference equations. II. **89k:35192**

Bendikov, A. D. (*with* Pavlov, I. V.) Diffusion processes on the group T^∞ and elliptic equations of infinitely many variables. **89f:60092**

Chebotarëv, A. M. Approximately complete sets of the generalized Feynman measure. **89e:35129**

Daletskiĭ, Yu. L. (*with* Pipia, G. M.) Quasidistributions in function spaces connected with evolution differential equations. **89a:46099**

Da Prato, G. (*with* Sinestrari, E.) Differential operators with nondense domain. **89f:4706**

Fröhlich, Jürg *see* **Albanese, C.; et al., 89k:35192**

Ishii, Hitoshi Perron's method for Hamilton-Jacobi equations. **89a:35053**

Kallianpur, G. (*with* Pérez-Abreu, Víctor) Stochastic evolution equations driven by nuclea space-valued martingales. **89b:60146**

Krée, Paul La théorie des distributions en dimension quelconque et l'intégration stochastique. [The theory of distributions in any dimension, and stochastic integration] **89i:60114**

Ktitarev, D. V. The Feynman formula in a phase space for a class of systems of pseudodifferential equations. (Russian) **89a:35233**
Norin, N. V. The mean value theorem connected with infinite-dimensional thermal potentials. (Russian) **89a:46100**
Obata, Nobuaki Analysis of the Lévy Laplacian. **89m:46080**
Pavlov, I. V. *see* **Bendikov, A. D., 89f:60092**
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Schmeelk, John Infinite-dimensional parametric distributions. **89a:46092**
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Sokol, T. A. Convergence of a sequence of Dirichlet operators. (Russian) **89f:47074**
Sokolovskiĭ, V. B. On a generalization of the Neumann problem. (Russian) **89k:35070**
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35R20 Operator equations, general [see also 34Gxx, 47A50, 47H15]

Atakhodzhaev, M. A. (*with* Ègamberdiev, O. M.) Continuation of the solution of an abstract bicaloric equation. (Russian) **89c:35148**
Burnap, Charles (*with* Zweifel, P. F.) Cauchy problems involving nonselfadjoint operators. **89g:35110**
D'Ancona, Piero Global solution of the Cauchy problem for a class of abstract nonlinear hyperbolic equations. **89k:35244**
Dawidowski, M. (*with* Kubiaczyk, I.; Rzepecki, Bogdan) An existence theorem for the hyperbolic equation $z_{xy} = f(x, y, z)$ in Banach spaces. **89k:35245**
Duchon, Jean (*with* Robert, Raoul) Perturbation quasi différentielle d'un semi-groupe régularisant dans une échelle d'espaces de Banach. (English summary) [Quasidifferential perturbation of a smoothing semigroup in a scale of Banach spaces] **89c:35149**
Ègamberdiev, O. M. *see* **Atakhodzhaev, M. A., 89c:35148**
Galkin, V. A. On the solutions of equations connected with physical kinetics. **89h:35327**
Kalantarov, V. K. Global behavior of solutions of the Cauchy problem for second-order operator-differential equations. (Russian. English and Azerbaijani summaries) **89k:35246**
Kubiaczyk, I. Existence theorem for hyperbolic equation in Banach space. **89m:35211**
— Existence theorem for multivalued hyperbolic equation in Banach spaces. **89m:35212**
— *see also* **Dawidowski, M.; et al., 89k:35245**
Makhmudov, Kh. (*with* Shabadikov, K. Kh.) A type of second-order differential equation in locally convex spaces. (Russian) (*see* **89g:60002**)
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Shananin, N. A. On the local properties of a class of evolution equations in a Hilbert space. (Russian) **89b:35165**
Suveĭka, I. V. Asymptotic behavior of the solutions of the Cauchy problem and of basic mixed problems for nonstationary equations with operator coefficients. (Russian) **89h:35328**
Tepoyan, L. P. Fourth-order degenerate operator-differential equations. (Russian) **89a:35221**
Yataev, N. M. On third-order degenerate operator-differential equations. **89i:35125**
Zweifel, P. F. *see* **Burnap, Charles, 89g:35110**

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Avrin, Joel D. Energy decay of underdamped nonlinear wave equations. **89b:35091**
Betancor, Jorge Juan A Cauchy problem associated with an operator semigroup with infinitesimal generator $B_{\alpha_1,\alpha_2} = x^{1-\alpha_1-\alpha_2} D x^{\alpha_1} D x^{\alpha_2}$. (Spanish. English summary) **89k:47057**
Chow, S.-N. (*with* Lu, Ke Ning) Invariant manifolds for flows in Banach spaces. **89h:58163**
Da Prato, G. (*with* Lunardi, A.) Stability, instability and center manifold theorem for fully nonlinear autonomous parabolic equations in Banach space. **89e:35019**
Guidetti, Davide On the asymptotic behavior of solutions of linear nonautonomous parabolic equations. (Italian summary) **89d:35077**
Hărăguş, Dumitru An abstract nonlinear equation. **89i:35111**
Kačur, Jozef Application of Rothe's method to evolution integro-differential equations. **89i:45015**
Labbas, Rabah (*with* Terreni, Brunello) Somme d'opérateurs linéaires de type parabolique. I. (Italian summary) [Sums of linear operators of parabolic type. I] **89g:47016**
Lu, Ke Ning *see* **Chow, S.-N., 89h:58163**
Lunardi, A. *see* **Da Prato, G., 89e:35019**
Miletta, Peter Asymptotic behavior of solutions to abstract evolution equations. **89k:58049**
Nakagiri, Shinichi Structural properties of functional-differential equations in Banach spaces. **89k:47060**
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Reissig, M. Ein abstraktes nichtlineares Cauchy-Kowalewskaja-Theorem mit singulären Koeffizienten. II. (English and Russian summaries) [An abstract nonlinear Cauchy-Kovalevskaya theorem with singular coefficients. II] **89j:35010**
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Shakhmurov, V. B. Theorems on the embedding of abstract function spaces and their applications. **89c:46052**
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Umbetzhanov, D. U. Almost multiperiodic solutions of differential equations in a Banach space. (Russian. Kazakh summary) **89h:35031**

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Gomboev, L. G. An ill-posed problem for an equation of ultraparabolic type. (Russian) **89m:35213**
Ivanov, Valentin Konstantinovich Hadamard conditions for well-posedness in spaces of generalized functions. (Russian) **89c:35150**
Knabner, Peter (*with* Vessella, Sergio) The optimal stability estimate for some ill-posed Cauchy problems for a parabolic equation. **89h:35330**
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Colton, David (*with* Monk, P. B.) The inverse scattering problem for time-harmonic acoustic waves in an inhomogeneous medium. **89i:76080**
Gustafsson, Björn An ill-posed moving boundary problem for doubly-connected domains. **89h:35352**
Kim, Ho A Fourier analysis for the inverse Cauchy problem of linear parabolic equations. I. (Korean. English summary) **89a:35124**
Knabner, Peter (*with* Vessella, Sergio) Stabilization of ill-posed Cauchy problems for parabolic equations. (Italian summary) **89e:35064**
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Popivanov, N. I. Well-posedness of some nonlocal boundary value problems in three-dimensional domains. (Russian) **89g:35062**
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— On the optimal control of non-well-posed linear evolution systems. **89j:49031**
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Akhundov, A. Ya. An inverse problem for a system of parabolic equations. (Russian) **89k:35247**
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— (*with* Mamayusupov, O. Sh.) Some inverse problems for a fourth-order equation with mixed derivatives. (Russian) **89f:35198**
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— An approach to multidimensional inverse problems for the wave equation. **89c:35152**
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Cannon, John R. (*with* Lin, Yanping) Determination of a parameter $p(t)$ in some quasilinear parabolic differential equations. **89h:35333**

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— (*with* Handrock-Meyer, S.) Uniqueness of the solution of an inverse problem for a quasilinear parabolic equation in divergence form. (German and Russian summaries) **89h:35335**

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Baev, A. V. On the solution of an inverse problem of the scattering of a plane wave by a multilayered inhomogeneous medium. **89e:73014**

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Baumeister, Johann ★ Stable solution of inverse problems. **89a:65004**

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Bluman, G. W. (*with* Kumei, Sukeyuki) Exact solutions for wave equations of two-layered media with smooth transition. **89g:35061**

Borodich, F. M. Similarity in a three-dimensional problem of the penetration of rigid bodies into an ideal incompressible fluid. **89m:76012**

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Gorenflo, N. Inversion formulae for first-order approximations in fixed-energy scattering by compactly supported potentials. **89j:81234**

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Ivankov, A. L. Inverse problems of the determination of the parameters of the nonstationary transport equation that do not depend on certain space and velocity coordinates. (Russian) **89k:82113**

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— (*with* Kress, Rainer; Monk, P. B.; Zinn, A.) Two methods for solving the inverse acoustic scattering problem. **89k:73024**

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Gittel, H.-P. Studies on transonic flow problems by nonlinear variational inequalities. (German and Russian summaries) **89a:35232**
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35Sxx Pseudodifferential operators [see also 47G05, 58G15]

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Hörmander, Lars ★ Анализ линейных дифференциальных операторов с частными производными. Том 4. (Russian) [The analysis of linear partial differential operators. Vol. 4] **89k:35002**
(Komech, A. I.) *see* **Hörmander, Lars, 89k:35002**
(Shubin, M. A.) *see* **Hörmander, Lars, 89k:35002**

35S05 General theory

Beals, Richard (*with* Greiner, Peter) ★ Calculus on Heisenberg manifolds. **89m:35223**
— Calcul pseudodifférentiel trois-étape. [Three-step pseudodifferential calculus] (*see* **89g:35002**)
Bègue, Catherine (*with* Glowinski, R.; Périaux, Jacques) Détermination d'un opérateur de préconditionnement pour la résolution itérative du problème de Stokes dans la formulation d'Helmholtz. (English summary) [A preconditioning operator for the iterative solution of the Stokes problem via the Helmholtz formulation] **89d:35191**
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Chemin, J.-Y. Calcul paradifférentiel précisé et applications à des équations aux dérivées partielles non semilinéaires. ["Specified" paradifferential calculus and applications to nonsemilinear partial differential equations] **89h:35362**
Chen, Shu Xing (*with* Shi, Jia Hong; Qiu, Qing Jiu) Asymptotic expansions of oscillatory integrals and their applications. (Chinese) **89h:35363**
van den Dries, R. J. C. H. A sufficient condition for a function to be a symbol. **89j:35135**
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Lerner, Nicolas Sufficiency of condition (Ψ) for local solvability in two dimensions. **89e:35150**
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Liang, Yuan Di Propagation of singularities for pseudodifferential operators of principal type with nonsmooth coefficients. (Chinese. English summary) **89k:35261**

Liess, Otto (*with* Rodino, Luigi) Fourier integral operators and inhomogeneous Gevrey classes. **89m:35224**

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Marschall, Jürgen Pseudodifferential operators with coefficients in Sobolev spaces. **89k:35262**

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Bernardi, Enrico Propagation of singularities for hyperbolic operators with multiple involutive characteristics. **89g:58202**

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(Fefferman, Charles) *see* **Lerner, Nicolas, 89h:35014**

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Kokotov, A. Yu. Representations, spectral topology and solvability of algebras of pseudodifferential operators in a half-space. **89f:47078**

Krob, D. Centralisateurs d'opérateurs pseudodifferentiels formels a coefficients constants. [Centralizers of formal pseudodifferential operators with constant coefficients] **89a:12015**

Kupershmidt, B. A. Undressing of odd pseudodifferential operators. **89h:58078**

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— A class of pseudo-differential operators of logarithmic type and infinitely degenerate hypoelliptic operators. **89k:35057**

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Rempel, Stephan (*with* Schulze, Bert-Wolfgang) Complete Mellin and Green symbolic calculus in spaces with conormal asymptotics. **89f:58132**

Rouleux, Michel Propagation de l'analycité le long d'une bicaractéristique réelle pour un opérateur totalement caractéristique. [Propagation of analyticity along a real bicharacteristic for a totally characteristic operator] **89h:35009**

Schrohe, Elmar Spaces of weighted symbols and weighted Sobolev spaces on manifolds. **89g:58200**

— A Ψ^* algebra of pseudodifferential operators on noncompact manifolds. **89i:47092**

Schulze, Bert-Wolfgang Opérateurs pseudo-différentiels et asymptotique sur des variétés à singularités. [Pseudodifferential operators and asymptotics on manifolds with singularities] **89b:58203**

— ★ Corner Mellin operators and reduction of orders with parameters. **89h:58186**

— Ellipticity and continuous conormal asymptotics on manifolds with conical singularities. **89j:58137**

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Segàla, Fausto Construction of a parametrix for a weakly hyperbolic differential operator. **89e:35088**

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Sugimoto, Mitsuru L^p-boundedness of pseudodifferential operators satisfying Besov estimates. II. **89g:47069**

— L^p-boundedness of pseudodifferential operators satisfying Besov estimates. I. **89g:47068**

— Pseudo-differential operators on Besov spaces. **89h:47081**

Triebel, Hans On a class of weighted function spaces and related pseudodifferential operators. **89j:46037**

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Umeda, Tomio *see* **Nagase, Michihiro, 89h:47075**

Unterberger, André Analyse relativiste. (English summary) [Relativistic analysis] **89a:47075**

— (*with* Unterberger, Julianne) Quantification et analyse pseudo-différentielle. [Quantization and pseudodifferential analysis] **89h:58187**

— Pseudodifferential analysis, quantum mechanics and relativity. **89h:58188**

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Wong, M. W. A lower bound for the spectrum of a one-dimensional pseudodifferential operator. **89d:47118**

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Zampieri, Giuseppe Local existence at the boundary of analytic solutions of P.D.E. with analytic coefficients. (Italian summary) **89j:35009**

35S10 Initial value problems

Lange, Bruno Conormal asymptotics and Lagrangian distributions. **89h:35366**

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Chemin, J.-Y. Interactions totalement non linéaires. [Totally nonlinear interactions] **89c:35109**

Ikawa, M. *see* **Mizohata, Sigeru; et al., 89f:35003**

Kajitani, Kunihiko The Cauchy problem for uniformly diagonalizable hyperbolic systems in Gevrey classes. **89f:35125**

Kitada, Hitoshi Fundamental solutions and eigenfunction expansions for Schrödinger operators. I. Fundamental solutions. **89f:35058**

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Popivanov, P. Wave fronts of the solutions of some classes of nonlinear partial differential equations. **89c:35093**

Wu, Fang Tong On the parametrix of the Cauchy problem for a class of hyperbolic operators with multiple characteristics. (Chinese. English summary) **89b:35083**

35S15 Boundary value problems

Jacob, Niels Dirichlet forms and pseudo differential operators. **89i:35136**

— L^∞-bounds for solutions of pseudo differential boundary problems in Dirichlet spaces. **89i:35137**

Items with secondary classifications in 35S15

Bergamasco, Adalberto P. (*with* Gerszonowicz, Jorge A.; Petronilho, Gerson) On the regularity up to the boundary in the Dirichlet problem for degenerate elliptic equations. **89i:35066**

Fel′dman, M. A. *see* **Samborskiĭ, S. N., 89h:35005**
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39–XX Finite differences and functional equations

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39–01 Elementary exposition; textbooks

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Biography:
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39–06 Proceedings, conferences, etc.

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39Axx Finite differences [see also 65–XX]

39A05 General

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39A11 Stability of difference equations

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Gajewski, Krzysztof (*with* Radziszewski, Bogusław; Ziemba, Stefan) On the estimation of the stable solution set for the recurrent equations. **89c:39007**
Gustomesov, V. A. Sliding states in difference systems with variable structure. (Russian) **89e:39006**
Kalniņa, Dace (*with* Tsar′kova, V. N.) Random perturbations of the parameters of linear iterations. (Russian) **89e:39007**
Kanellakis, A. (*with* Theodorou, N.; Tzafestas, Spyros G.) A new stability test for two-dimensional discrete systems using bilinear continuous fractions. (Not in MR)
Karabatzos, George (*with* Stratis, Ioannis G.) Solution-bounds for a class of difference equations. **89c:39008**
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Martynyuk, A. A. (*with* Krapivnyĭ, Yu. N.) Application of Lyapunov matrix-functions in the theory of the stability of discrete large-scale systems. (Russian. English summary) **89j:39005**
Okuguchi, Koji *see* **Szidarovszky, Ferenc, 89j:39007**
Radchenko, I. F. Investigation of the stability of a class of nonlinear difference equations. (Russian) (*see* **89f:93002**)
Radziszewski, Bogusław *see* **Gajewski, Krzysztof; et al., 89c:39007**
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Sezer, M. E. (*with* Šiljak, Dragoslav D.) Robust stability of discrete systems. **89j:39006**
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Skof, Fulvia Restricted domains of validity of the quadratic functional equation and global validity. (Italian. English summary) **89d:39005**
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Stratis, Ioannis G. *see* **Karabatzos, George, 89c:39008**
Sun, Zhen Qi (*with* Wang, Jia Xing) Asymptotic stability and optimal stability of time-varying discrete dynamical systems with respect to a subset of the variables. (Chinese) (Not in MR)
Szidarovszky, Ferenc (*with* Okuguchi, Koji) A note on global asymptotic stability of nonlinear difference equations. **89j:39007**
Talpalaru, Pavel On the application of the comparison method to multivalued difference equations. **89k:39009**
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Tsar′kova, V. N. *see* **Kalniņa, Dace, 89e:39007**
Tzafestas, Spyros G. *see* **Kanellakis, A.; et al.**, (Not in MR)
Venkatesh, Y. V. Riesz-Thorin theorem and l_p-stability of nonlinear time-varying discrete systems. **89k:39010**
Wang, Jia Xing *see* **Sun, Zhen Qi**, (Not in MR)
Wu, Jinn-Wen (*with* Brown, David P.) Exponentially stable linear discrete systems. **89k:39011**
Yaz, Engin Deterministic and stochastic robustness measures for discrete systems. **89f:39003**
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Barabanov, N. E. A problem of absolute stability of sampled-data automatic control systems. **89m:93063**
Bolzern, Paolo (*with* Colaneri, Patrizio) The periodic Lyapunov equation. **89j:34005**
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Cobos, José l_p-stability for partial difference equations. (Spanish. English summary) **89m:39003**
Colaneri, Patrizio *see* **Bolzern, Paolo, 89j:34005**
Dement′ev, N. P. Estimates for the convergence of optimal trajectories in models of economic dynamics. (Russian) **89j:90063**
Dendrinos, Dimitrios S. (*with* Sonis, Michael) The onset of turbulence in discrete relative multiple spatial dynamics. **89d:92084**
Gol′dsheĭd, I. Ya. (*with* Margulis, G. A.) The condition of simplicity for the spectrum of Lyapunov exponents. (Russian) **89c:60073**
Kanellakis, A. *see* **Tzafestas, Spyros G.; et al., 89k:93191**
Kozlov, R. I. (*with* Burnosov, S. V.) Asymptotic behavior of and estimates for the solutions of monotone difference equations. (Russian) **89h:39002**
Kurzweil, Jaroslav (*with* Papaschinopoulos, Garyfalos) Structural stability of linear discrete systems via the exponential dichotomy. **89h:39003**
Lakshmikantham, V. (*with* Trigiante, D.) ★ Theory of difference equations. **89g:39003**
Ma, Wan Biao Two theorems on the stability of discrete systems. (Chinese. English summary) **89j:93096**
Margulis, G. A. *see* **Gol′dsheĭd, I. Ya., 89c:60073**
Medveď, Milan Almost Floquet linear difference equations. (Russian summary) **89g:39005**
Moadab, Mohammad H. Asymptotic behaviour for difference equations. **89i:39005**
Nieuwenhuis, J. W. Stability analysis by means of modern linear systems theory. **89k:93156**
Panasyuk, A. I. (*with* Svito, I. L.) Calculation of attracting sets for investigating the stability of discrete nonlinear dynamical systems by means of the dynamics of the sets. (Russian) **89h:58104**
Papaschinopoulos, Garyfalos *see* **Kurzweil, Jaroslav, 89h:39003**
Przyłuski, K. M. Stability of linear infinite-dimensional systems revisited. **89j:93101**
Romanovskaya, A. M. The stability of the solutions of the Cauchy problem for a second-order hyperbolic system with periodic coefficients. (Russian) **89a:35031**
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Tokarzewski, Jerzy Stability of linear systems with periodic feedback and sampled-data systems. **89m:93065**
Trigiante, D. *see* **Lakshmikantham, V., 89g:39003**
Troch, I. Relations between solutions of the continuous and the discrete Sylvester equation—consequences for stability properties. **89g:34078**
Tzafestas, Spyros G. (*with* Theodorou, N.; Kanellakis, A.) Recent advances in the stability analysis of multi-dimensional systems. **89k:93191**
Zuber, I. E. Design of stabilizing control for nonlinear discrete objects. (Russian) (*see* **89j:34002**)

39A12 Discrete version of topics in analysis

Ahlbrandt, Calvin D. (*with* Hooker, John W.) Recessive solutions of symmetric three term recurrence relations. **89g:39007**
Azimova, G. M. (*with* Guseĭnov, I. M.) Direct and inverse problems of scattering theory for a system of first-order difference equations. (Russian. English and Azerbaijani summaries) **89g:39008**
Gelashvili, Sh. M. Boundary value problems for systems of functional-difference equations. (Russian. English and Georgian summaries) **89f:39004**
Gray, Henry L. (*with* Zhang, Nian Fan) On a new definition of the fractional difference. **89i:39008**
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Kaczmarczyk, Jacek A difference analogue of nonlinear parabolic differential inequalities with nonlinear boundary conditions. **89i:39009**
Nersesyan, A. B. (*with* Sadakashvili, M. G.) Noethericity of a discretized system of Wiener-Hopf integral equations. **89e:39009**
Praagman, C. Stokes and Gevrey phenomena in relation to index theorems in the theory of meromorphic linear difference equations. **89c:39009**
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Aksiev, A. Z. *see* **Bykov, Ya. V., 89i:39001**

Askhabov, S. N. (*with* Karapetyants, N. K.; Yakubov, A. Ya.) Discrete equations of convolution type with power nonlinearity. **89a:45010**

Babaev, Arif Aligeidarovich (*with* Musaev, B. I.) An approximate solution of a complete linear singular integral equation with a Hilbert kernel. (Russian) **89g:45025**

Barabanov, N. E. On the Lyapunov exponent of discrete inclusions. I. **89e:34025**

— On the Lyapunov exponent of discrete inclusions. II. **89e:34026**

— On the Lyapunov exponent of discrete inclusions. III. **89m:34060**

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Brown, Richard C. (*with* Hinton, D. B.) Weighted interpolation inequalities of sum and product form in $\mathbf{R}^n$. **89c:26027**

Bruckstein, Alfred M. (*with* Kailath, Thomas) On discrete Schrödinger equations and their two-component wave equation equivalents. **89a:34019**

Budinčević, Mirko Perturbations of a linear difference equation. (Serbo-Croatian summary) **89c:39006**

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Cohn, Stephen E. (*with* Dee, Dick P.) Observability of discretized partial differential equations. **89i:93012**

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Dezin, A. A. The two-dimensional Abel transform and applications. (Russian) (*see* **89j:00030**)

Gaĭshun, I. V. (*with* Goryachkin, V. V.) Construction of the solutions of a class of distributed discrete systems. (Russian) **89a:39001**

Goryachkin, V. V. *see* **Gaĭshun, I. V., 89a:39001**

Hankerson, Darrel (*with* Peterson, Allan) On a theorem of Elias for difference equations. **89a:39002**

Haruki, Shigeru On the general solution of a nonsymmetric partial difference functional equation analogous to the wave equation. **89h:39011**

Hinton, D. B. *see* **Brown, Richard C., 89c:26027**

Hooker, John W. *see* **Ahlbrandt, Calvin D., 89m:39001**

Huang, Xun Cheng A discrete L'Hôpital's rule. **89h:26002**

Il'in, V. A. (*with* Moiseev, E. I.) A nonlocal boundary value problem of the second kind for the Sturm-Liouville operator. (Russian) **89e:34043**

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Kocić, Vlajko Lj. On the generalized Riccati equation. (Serbo-Croatian summary) **89j:39008**

Kuklina, G. Ya. ★ О равномерной сходимости схемы Шарфеттера для одномерного уравнения переноса носителей заряда в полупроводниковых приборах. (Russian) [Uniform convergence of a Scharfetter scheme for a one-dimensional equation of the transport of charge carriers in semiconductors] **89h:65131**

Kurbanov, S. G. Some integral representations for the exponentials of divided difference operators. (Russian) **89h:39006**

Lebédev, A. L. Convergence with respect to a functional of discrete approximations in controllable systems with delay. (Russian. English summary) **89e:34134**

Lyubich, Yu. I. Darwinian systems and their discrete analogues. (Russian) **89g:39004**

Medved', Milan Almost Floquet linear difference equations. (Russian summary) **89g:39005**

Mickens, R. E. Properties of finite difference models of nonlinear conservative oscillators. **89h:65135**

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Musaev, B. I. *see* **Babaev, Arif Aligeidarovich, 89g:45025**

Nakamura, Akira^{2} Exact solutions of the 2 + 1-dimensional Toda equation under periodic boundary condition. **89i:58052**

Nakhushev, A. M. Continuous differential equations and their difference analogues. **89m:26016**

Niederreiter, Harald A simple and general approach to the decimation of feedback shift-register sequences. (Russian summary) **89k:94054**

Nikiforov, A. F. (*with* Suslov, S. K.) Classical orthogonal polynomials of a discrete variable on nonuniform lattices. **89b:33016**

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— On the summable manifold for discrete systems. **89k:39007**

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Poletti, Mark A. The development of a discrete transform for the Wigner distribution and ambiguity function. **89f:94004**

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— On the discrete inequalities of Gronwall-Bellman type. **89b:26021**

— On the discrete analogy of Gronwall inequality. **89f:26025**

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Rätz, Jürg (*with* Russell, Dennis C.) An extremal problem related to probability. **89b:60096**

Russell, Dennis C. *see* **Rätz, Jürg, 89b:60096**

Sasagawa, T. Existence theorem for the difference Riccati equations. **89m:39007**

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Talpalaru, Pavel On the application of the comparison method to multivalued difference equations. **89k:39009**

Volkov, A. Yu. The Miura transformation on a lattice. **89g:58186**

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Yang, En Hao On some new discrete generalizations of Gronwall's inequality. **89c:26036**

Yaz, Engin Deterministic and stochastic robustness measures for discrete systems. **89f:39003**

39A70 Difference operators [see also 47B39]

Billigheimer, C. E. Singular selfadjoint fourth order difference operators. **89a:39006**

Dzhavadova, F. M. A difference operator equation with various parameters. (Russian) (*see* **89c:00016**)

Kocić, Vlajko Lj. On the generalized Riccati equation. (Serbo-Croatian summary) **89j:39008**

Kurbanov, S. G. Some integral representations for the exponentials of divided difference operators. (Russian) **89h:39006**

Kwong, Man Kam (*with* Zettl, A.) Landau's inequality for the difference operator. **89k:39012**

Mamedov, Kh. R. The inverse scattering problem on the whole axis for a system of first-order difference equations. (Russian) **89a:39007**

Máté, A. (*with* Nevai, P.; Totik, V.) Twisted difference operators and perturbed Chebyshev polynomials. **89f:39005**

Nevai, P. *see* **Máté, A.; et al., 89f:39005**

Sawada, Mamoru Sur les solutions élémentaires des opérateurs linéaires aux différences à coefficients constants possédant les termes infinis dépendant du paramètre. [Elementary solutions of linear difference operators with constant coefficients with parameter-dependent infinite terms] **89m:39010**

Totik, V. *see* **Máté, A.; et al., 89f:39005**

Zettl, A. *see* **Kwong, Man Kam, 89k:39012**

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Feinsilver, Philip Discrete analogues of the Heisenberg-Weyl algebra. **89j:17013**

Geronimo, J. S. (*with* Harrell, Evans M., II; Van Assche, Walter) On the asymptotic distribution of eigenvalues of banded matrices. **89j:15017**

Goldstein, Charles I. (*with* Parter, Seymour V.) On the norm equivalence of singularly perturbed elliptic difference operators. **89h:65061**

Guseĭnov, G. Sh. On the spectral theory of second-order multiparameter difference equations. **89e:39008**

Harrell, Evans M., II *see* **Geronimo, J. S.; et al., 89j:15017**

Hooker, John W. *see* **Ahlbrandt, Calvin D., 89g:39007**

Ifantis, E. K. On the convergence of power series whose coefficients satisfy a Poincaré-type linear and nonlinear difference equation. **89b:39005**

Kocić, Ljubiša M. *see* **Milovanović, Igor Ž.; et al., 89j:26017**

Kwong, Man Kam (*with* Zettl, A.) Extremals in Landau's inequality for the difference operator. **89m:47027**

Milovanović, Igor Ž. (*with* Kocić, Ljubiša M.; Stanković, Ljubomir R.) Invariant transformation of generalized convex sequences. (Serbo-Croatian summary) **89j:26017**

Parter, Seymour V. *see* **Goldstein, Charles I., 89h:65061**

Rätz, Jürg (*with* Russell, Dennis C.) An extremal problem related to probability. **89b:60096**

Reznik, A. A. Metric properties of boundary potentials and of Green operators of elliptic difference operators. (Russian) **89h:35098**

Russell, Dennis C. *see* **Rätz, Jürg, 89b:60096**

Stanković, Ljubomir R. *see* **Milovanović, Igor Ž.; et al., 89j:26017**

Van Assche, Walter *see* **Geronimo, J. S.; et al., 89j:15017**

Zettl, A. *see* **Kwong, Man Kam, 89m:47027**

39A99 None of the above, but in this section

Mullhaupt, A. P. Boolean delay equations, de Bruijn oscillations and intermittency. **89a:39008**

39Bxx Functional equations [see also 30D05]

39B05 General

Alsina, C. (*with* Tomás, M. S.) Smooth convex t-norms do not exist. **89c:39010**

Dyjak, Cz. (*with* Matkowski, J.) BV-solutions of nonlinear functional equations. (Serbo-Croatian summary) **89f:39006**

Matkowski, J. *see* **Dyjak, Cz., 89f:39006**

Paganoni Marzegalli, Stefania A remark on a functional equation characterizing the Jacobian elliptic functions. **89a:39009**

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Aczél, J. On history, applications and theory of functional equations. **89i:01043**

Daróczy, Z. (*with* Kátai, I.) On functions additive with respect to interval filling sequences. **89c:26012**

Kátai, I. *see* **Daróczy, Z., 89c:26012**

39B10 Equations containing iterates, equations of rank one

Borwein, P. B. Hypertranscendence of the functional equation $g(x^2) = [g(x)]^2 + cx$. **89m:39011**

Borzymowski, Andrzej (*with* Sadowski, Antoni) On some sequences of iterates. **89g:39009**

Daróczy, Z. (*with* Losonczi, László) Functional equations of sum type on a domain. **89k:39013**

Fochi, Margherita (*with* Skof, Fulvia) Remarks on some continuity criteria for additive functions and quadratic functions. (Italian. English summary) **89d:39006**

Jarczyk, Witold Generic properties of some iterative functional equations. **89f:39007**

Kumari, K. (*with* Vasudeva, H. L.) On the functional equation $S(x+y) + S(x-y) = 2S(x)[1 - 2S^2(y/2)]$. **89i:39010**

Losonczi, László *see* **Daróczy, Z., 89k:39013**

Marenich, A. S. Investigation of the solutions of a functional equation by means of Lie series. (Russian) (*see* **89c:00019**)

Moszner, Zenon Sur un problème au sujet des homomorphismes. [On a problem concerning homomorphisms] **89b:39010**

Sadowski, Antoni *see* **Borzymowski, Andrzej, 89g:39009**

Sambo, Alberto On the functional equations $y(x)/y(a-x) = (y(a))^\alpha$ and $y(x)/y(a-x) = y(0)/y(a)$. (Italian) **89e:39010**

Skof, Fulvia *see* **Fochi, Margherita, 89d:39006**

Vasudeva, H. L. *see* **Kumari, K., 89i:39010**

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Walker, Peter L. A class of functional equations which have entire solutions. **89j:39009**

Zdun, Marek Cezary Note on commutable functions. **89m:39012**

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Baron, Karol (*with* Jarczyk, Witold) On a way of division of segments. **89b:39003**

Blanton, George Smoothness in disjoint groups of real functions under composition. **89h:26004**

Christensen, Jens Peter Reus (*with* Fischer, Pal) Linear independence of iterates and entire solutions of functional equations. **89m:30051**

Dubuc, Serge (*with* Elqortobi, Abdelkader) Enveloppe convexe d'une courbe de Mandelbrot. (English summary) [The convex hull of a Mandelbrot curve] **89a:52003**

Elqortobi, Abdelkader *see* **Dubuc, Serge, 89a:52003**

Fischer, Pal *see* **Christensen, Jens Peter Reus, 89m:30051**

Gelman, Alexander (*with* Rheinboldt, Werner C.) On the computation of finite invariant sets of mappings. **89h:58164**

Grosjean, Carl C. Solution of the evolution equation corresponding to a polynomial discrete-time map of arbitrary degree. (Dutch summary) **89j:58055**

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Lawrence, Jim (*with* Spingarn, Jonathan E.) On fixed points of nonexpansive piecewise isometric mappings. **89d:58063**

MacKay, R. S. A simple proof of Denjoy's theorem. **89c:26017**

Okamoto, Kazuo Sur les échelles associées aux fonctions spéciales et l'équation de Toda. [Scales associated with special functions and the Toda equation] **89d:58058**

Osgood, C. F. *see* **Gross, Fred, 89k:30024**

Praagman, C. Roots, iterations and logarithms of formal automorphisms. **89j:13006**

Rheinboldt, Werner C. *see* **Gelman, Alexander, 89h:58164**

Ryff, John V. A problem in convexity leading to the analysis of two functional equations. **89d:46010**

Sagitov, S. M. *see* **Vatutin, V. A., 89k:60125**

Sklar, A. The cycle theorem for flows. **89k:58251**

Sõderberg, B. Circle maps and reciprocal winding numbers. **89h:58088**

Spingarn, Jonathan E. *see* **Lawrence, Jim, 89d:58063**

Suzuki, Masaaki The fixed point set and the iterational limits of a holomorphic self-map. **89e:32005**

Toader, Gh. Generalized means and double sequences. **89e:26002**

Vatutin, V. A. (*with* Sagitov, S. M.) A decomposable critical Bellman-Harris branching process with two types of particles. I. (Russian) **89k:60125**

39B20 Equations for one unknown function of one variable, rank greater than one

Aguilar-Martin, J. (*with* Alsina, C.) Characterizations of some rescaling functions. **89m:39013**

Alsina, C. *see* **Aguilar-Martin, J., 89m:39013**

Baran, Mirosław A functional equation for the Joukowski transformation. **89k:39014**

Baron, Karol (*with* Volkmann, Peter) On the Cauchy equation modulo Z. **89m:39014**

Bauer, Heinz Mittelwerte und Funktionalgleichungen. [Means and functional equations] **89a:39010**

Benz, Walter Ein Beitrag zu einem Problem von Herrn Fenyö. [A contribution to a problem of Fenyö] **89b:39011**

Dhombres, Jean Relations de dépendance entre les équations fonctionnelles de Cauchy. (English summary) [Dependence relations among the Cauchy functional equations] **89i:39011**

Haruki, Shigeru *see* **Tsutsumi, A., 89e:39012**

Koh, E. L. The Cauchy functional equations in distributions. **89k:39015**

Krushevskiĭ, E. A. Solution of linear functional equations with several shifts into the domain. (Russian) **89d:39007**

Kuchko, L. P. Functional equations with a degenerate transformation of the argument. (Russian) **89g:39010**

Kuczma, Marek On some properties of solutions of a functional equation. (Russian and Polish summaries) **89i:39012**

Matkowski, J. (*with* Sablik, M.) Some remarks on a problem of C. Alsina. **89e:39011**

Moszner, Zenon Sur la définition de Hyers de la stabilité de l'équation fonctionnelle. (Russian and Polish summaries) [On Hyers' definition of the stability of a functional equation] **89i:39013**

Peng, Shou Li (*with* Qu, Chao Chun) Existence of nonbijective solution for generalized Feigenbaum's functional equation. **89k:39016**

Peyrot, Giovanna (*with* Skof, Fulvia) Functions locally quadratic in the neighborhood of a point. (Italian. English summary) **89h:39008**

Qu, Chao Chun *see* **Peng, Shou Li, 89k:39016**

Sablik, M. *see* **Matkowski, J., 89e:39011**

Skof, Fulvia *see* **Peyrot, Giovanna, 89h:39008**

Tsutsumi, A. (*with* Haruki, Shigeru) The regularity of solutions of functional equations and hypoellipticity. **89e:39012**

Volkmann, Peter *see* **Baron, Karol, 89m:39014**

Items with secondary classifications in 39B20

Abouzahra, M. (*with* Lewin, L.; Xiao, Hong Nian) Polylogarithms in the field of omega (a root of a given cubic): functional equations and ladders. **89j:30033**

Banaś, Józef On the superposition operator and integrable solutions of some functional equations. **89h:47096**

Bhakta, P. C. (*with* Choudhury, Sumitra Roy) Some existence theorems for functional equations arising in dynamic programming. II. **89h:90248**

Chawla, J. S. δ-information function, δ-entropy and their properties. **89b:94013**

Chen, Fang Yue A smooth solution of the Feigenbaum functional equation. (Chinese) (Not in MR)

Choudhury, Sumitra Roy *see* **Bhakta, P. C., 89h:90248**

Dhombres, Jean Utilisation des équations fonctionnelles pour la caractérisation des espaces préhilbertiens. (English summary) [The use of functional equations to characterize pre-Hilbert spaces] **89e:46023a**

— Errata-corrige: "The use of functional equations to characterize pre-Hilbert spaces". (French) **89e:46023b**

Dyjak, Cz. (*with* Matkowski, J.) BV-solutions of nonlinear functional equations. (Serbo-Croatian summary) **89f:39006**

Fochi, Margherita (*with* Skof, Fulvia) Remarks on some continuity criteria for additive functions and quadratic functions. (Italian. English summary) **89d:39006**

— Some functional equations conditioned on orthogonal vectors. (Italian. English summary) **89f:39010**

Kannappan, Pl. Characterization of some measures of information theory and the sum form functional equations. Generalized directed divergence. I. **89d:94028**

Khatri, C. G. *see* **Talwalker, Sheela, 89b:62037**

Kitahara, Kiyoshi *see* **Nakada, Hiromitsu; et al., 89k:45011**

Koike, Minoru *see* **Nakada, Hiromitsu; et al., 89k:45011**

Koshigoe, Hideyuki *see* **Nakada, Hiromitsu; et al., 89k:45011**

Kuchko, L. P. Existence and uniqueness of the solutions of multidimensional functional equations. **89d:58020**

Lewin, L. *see* **Abouzahra, M.; et al., 89j:30033**

Matkowski, J. *see* **Dyjak, Cz., 89f:39006**

Nakada, Hiromitsu (*with* Kitahara, Kiyoshi; Koike, Minoru; Koshigoe, Hideyuki; Takato, Setsuo) On the existence of solutions for an abstract functional equation. (Japanese. English summary) **89k:45011**

Reich, L. (*with* Schwaiger, J.) On polynomials in additive and multiplicative functions. **89g:12001**

Schwaiger, J. *see* **Reich, L., 89g:12001**

Skof, Fulvia On the approximation of locally δ-additive mappings. (Italian. English summary) **89a:39015**

— Restricted domains of validity of the quadratic functional equation and global validity. (Italian. English summary) **89d:39005**

— *see also* **Fochi, Margherita, 89d:39006**

Takato, Setsuo *see* **Nakada, Hiromitsu; et al., 89k:45011**

Talwalker, Sheela (*with* Khatri, C. G.) On the solutions of two generalized Cauchy functional equations. (Italian summary) **89b:62037**

Vukman, J. A note on additive mappings in noncommutative fields. **89e:39017**

Xiao, Hong Nian *see* **Abouzahra, M.; et al., 89j:30033**

39B30 Equations for several unknown functions of one variable, systems

Alsina, C. (*with* Ger, R.) On associative copulas uniformly close. **89f:39008**

Bajraktarević, M. Sur certaines solutions continues d'une équation fonctionnelle. (English and Serbo-Croatian summaries) [Some continuous solutions of a functional equation] **89d:39008**

Baker, John A. *see* **Radó, F., 89i:39014**

Chung, J. K. (*with* Kannappan, Pl.; Ng, C. T.) On two trigonometric functional equations. **89j:39010**

Fochi, Margherita (*with* Skof, Fulvia) On the characterization of certain classes of quadratic functionals. (Italian. English summary) **89e:39013**

Gehrig, W. On a characterization of the Shannon concentration measure. **89h:39009**

Ger, R. *see* **Alsina, C., 89f:39008**

Haruki, Hiroshi On a functional equation of Pexider type. **89k:39017**

Kannappan, Pl. *see* **Chung, J. K.; et al., 89j:39010**

Ng, C. T. *see* **Chung, J. K.; et al., 89j:39010**

Páles, Zsolt On a Pexider-type functional equation for quasideviation means. **89e:39014**

Radó, F. (*with* Baker, John A.) Pexider's equation and aggregation of allocations. **89i:39014**

Ragimov, M. B. Analytic solutions of a class of overdetermined systems of functional and differential equations and problems of convergence. (Russian) (*see* **89b:41001**)

Skof, Fulvia *see* **Fochi, Margherita, 89e:39013**

Items with secondary classifications in 39B30

Aczél, J. On the general form of the laws of science without dimensional constants. (Italian summary) **89d:00021**

Alsina, C. The solution of the functional equation: $\tau(aF(j-b), aG(j-c)) = a\tau(F,G)(j-b-c)$. (Serbo-Croatian summary) **89m:39016**

Baron, Karol (*with* Volkmann, Peter) On the Cauchy equation modulo **Z**. **89m:39014**

Dhombres, Jean On the historical role of functional equations. **89m:01053**

Maksa, Gy. (*with* Szabó, Gy.; Székelyhidi, L.) Equations arising from the theory of orthogonally additive and quadratic functions. **89k:39018**

Pelyukh, G. P. Solutions that are continuous and bounded on the whole axis of systems of nonlinear functional equations, and their properties. (Russian) **89g:47085**

Szabó, Gy. *see* **Maksa, Gy.; et al., 89k:39018**

Székelyhidi, L. *see* **Maksa, Gy.; et al., 89k:39018**

Volkmann, Peter *see* **Baron, Karol, 89m:39014**

39B40 Equations for functions of several variables

Al-Rashed, A. M. (*with* Hemdan, H. T.) Solution of the generalized cube and octahedron functional equations. **89f:39009**

Bieszk, Leon (*with* Gordzijewski, Władysław) Sur la généralisation de certains théorèmes touchants l'équation de translation sur le produit direct des groupes. [A generalization of some theorems concerning the translation equation of the direct product of groups] **89e:39015**

Davison, T. M. K. Bilinear three-cycles on the projective line. **89g:39011**

— Restricted homogeneity implies bi-additivity. **89g:39012**

Divari, Maria *see* **Poggi, Carla, 89i:39015**

Ebanks, Bruce On antisymmetric bi-additive functions and an interesting system of functional equations. **89e:39016**

Filipescu, A. On a system of functional equations. (Romanian summary) **89d:39009**

Gordzijewski, Władysław *see* **Bieszk, Leon, 89e:39015**

Gulati, K. K. On the measurable solution of a functional equation. **89h:39010**

Haruki, Shigeru The existence of solvable operators in the ideal. **89m:39015**

— On the general solution of a nonsymmetric partial difference functional equation analogous to the wave equation. **89h:39011**

Hemdan, H. T. *see* **Al-Rashed, A. M., 89f:39009**

Kostyrko, Pavel On a local form of Lobachevskiĭ's functional equation. (Russian and Slovak summaries) **89g:39013**

Mach, Andrzej (*with* Moszner, Zenon) Sur les prolongements de la solution de l'équation de translation. [On extensions of the solution of the translation equation] **89h:39012**

Moszner, Zenon *see* **Mach, Andrzej, 89h:39012**

Nikodem, Kazimierz Set-valued solutions of the Pexider functional equation. **89j:39011**

Poggi, Carla (*with* Divari, Maria) Measures of uncertainty totally compositive with the branching property. (Italian. English summary) **89i:39015**

Tikochinsky, Yoel On the generalized multiplication and addition of complex numbers. **89b:39012**

Tomás, M. S. On certain means of associative functions. (Spanish. English summary) (Not in MR)

Items with secondary classifications in 39B40

Bertoluzza, Carlo Some characterizations of associative multiplication laws. (Spanish) **89a:17006**

Clerc, René-Louis (*with* Hartmann, Christian) Invariant curves as solutions of functional equations. **89g:58104**

Ebanks, Bruce Measures of inset information on open domains. III. Weakly regular, semisymmetric, β-recursive entropies. **89j:94016**

— (*with* Maska, Gy.) Measures of inset information on the open domain. I. Inset entropies and information functions of all degrees. **89j:94014**

— Measures of inset information on open domains. II. Additive inset entropies with measurable sum property. **89j:94015**

Gehrig, W. Functional equation methods applied to economic problems: some examples. **89g:90006**

Gelashvili, Sh. M. Boundary value problems for systems of functional-difference equations. (Russian. English and Georgian summaries) **89f:39004**

Goel, S. N. *see* **Singh, Ram Pal, 89g:94018**

Hartmann, Christian *see* **Clerc, René-Louis, 89g:58104**

Kannappan, Pl. On some functional equations from additive and nonadditive measures. VI. **89d:94029**

Maska, Gy. *see* **Ebanks, Bruce, 89j:94014**

Sander, Wolfgang The fundamental equation of information and its generalizations. **89g:94017**

Singh, Ram Pal (*with* Goel, S. N.) Additive information measures with preference of order β. **89g:94018**

Taneja, Inder Jeet On characterizations of generalized information measures. **89k:94030**

Wilde, Alan C. Algebras of operators isomorphic to the circulant algebra. **89m:15011**

39B50 Functional equations on algebraic structures

Gaĭshun, I. V. Periodic functions and functional equations on groups. (Russian. English summary) **89a:39011**

Gajda, Zbigniew A characterization of exponential polynomials by a class of functional equations. **89j:39012**

Krapež, A. Groupoids with Δ-kernels. **89h:39013**

— (*with* Taylor, Mark Adrian) Belousov equations on quasigroups. **89a:39012**

Maksa, Gy. (*with* Szabó, Gy.; Székelyhidi, L.) Equations arising from the theory of orthogonally additive and quadratic functions. **89k:39018**

Szabó, Gy. *see* **Maksa, Gy.; et al., 89k:39018**

Székelyhidi, L. Fréchet's equation and Hyers theorem on noncommutative semigroups. **89j:39013**

— *see also* **Maksa, Gy.; et al., 89k:39018**

Taylor, Mark Adrian *see* **Krapež, A., 89a:39012**

Vukman, J. A note on additive mappings in noncommutative fields. **89e:39017**

Items with secondary classifications in 39B50

Benz, Walter Ein Beitrag zu einem Problem von Herrn Fenyö. [A contribution to a problem of Fenyö] **89b:39011**

Bieszk, Leon (*with* Gordzijewski, Władysław) Sur la généralisation de certains théorèmes touchants l'équation de translation sur le produit direct des groupes. [A generalization of some theorems concerning the translation equation of the direct product of groups] **89e:39015**

Chung, J. K. (*with* Kannappan, Pl.; Ng, C. T.) On two trigonometric functional equations. **89j:39010**

Dhombres, Jean Relations de dépendance entre les équations fonctionnelles de Cauchy. (English summary) [Dependence relations among the Cauchy functional equations] **89i:39011**

Ebanks, Bruce Measures of inset information on open domains. III. Weakly regular, semisymmetric, β-recursive entropies. **89j:94016**

— (*with* Maska, Gy.) Measures of inset information on the open domain. I. Inset entropies and information functions of all degrees. **89j:94014**

— Measures of inset information on open domains. II. Additive inset entropies with measurable sum property. **89j:94015**

Filipescu, A. On a system of functional equations. (Romanian summary) **89d:39009**

Gordzijewski, Władysław *see* **Bieszk, Leon, 89e:39015**

Kannappan, Pl. *see* **Chung, J. K.; et al., 89j:39010**

Krapež, A. Functional equations on groupoids and related structures. **89g:39015**

Kurepa, Svetozar Quadratic and sesquilinear forms. Contributions to characterizations of inner product spaces. **89a:46048**

Maska, Gy. *see* **Ebanks, Bruce, 89j:94014**

Ng, C. T. *see* **Chung, J. K.; et al., 89j:39010**

Praagman, C. Roots, iterations and logarithms of formal automorphisms. **89j:13006**

Šemrl, Peter On quadratic functionals. **89f:46110**

39B60 Matrix functional equations

Items with secondary classifications in 39B60

Jódar, Lucas Singular bilateral boundary value problems for discrete generalized Lyapunov matrix equations. **89m:15010**

Kuchko, L. P. Multidimensional functional equations and the normalization of local matrix functions. **89f:58021**

Paganoni, L. On a functional equation concerning affine transformations. **89a:39014**

39B70 Functional equations on abstract spaces or structures

Alsina, C. The solution of the functional equation: $\tau(aF(j-b), aG(j-c)) = a\tau(F,G)(j-b-c)$. (Serbo-Croatian summary) **89m:39016**

Ebanks, Bruce Kurepa's functional equation on Gaussian semigroups. **89g:39014**

Fochi, Margherita Some functional equations conditioned on orthogonal vectors. (Italian. English summary) **89f:39010**

Forti, G. L. The stability of homomorphisms and amenability, with applications to functional equations. **89b:39013**

Kocić, Vlajko Lj. Liouville's formula for certain classes of linear equations and its applications. (Serbo-Croatian summary) **89m:39017**

Kominek, Z. On a problem of K. Nikodem. **89e:39018**

Krapež, A. Functional equations on groupoids and related structures. **89g:39015**

Kulkarni, Ravindra D. D'Alembert's functional equation on products of topological groups. **89g:39016**

Kumari, K. (*with* Singh, Harshinder; Vasudeva, H. L.) On the operator functional equation $S(t+s)+S(t-s) = 2S(t)[I-2S^2(s/2)]$. (Serbo-Croatian summary) **89k:39019**

Li, Wen Rong The existence and uniqueness of continuous solutions of functional equations of the form $f(x) = G(x, f(qx))$ in Banach spaces. (Chinese. English summary) **89a:39013**

Paganoni, L. On a functional equation concerning affine transformations. **89a:39014**

Singh, Harshinder *see* **Kumari, K.; et al., 89k:39019**

Skof, Fulvia On the approximation of locally δ-additive mappings. (Italian. English summary) **89a:39015**

Vasudeva, H. L. *see* **Kumari, K.; et al., 89k:39019**

Items with secondary classifications in 39B70

Baron, Karol (*with* Volkmann, Peter) On the Cauchy equation modulo **Z**. **89m:39014**

Christensen, Jens Peter Reus (*with* Fischer, Pal) Small sets and a class of general functional equations. **89f:43002**

— (*with* Fischer, Pal) Joint continuity of measurable biadditive mappings. **89d:43006**

Ebanks, Bruce (*with* Maska, Gy.) Measures of inset information on the open domain. I. Inset entropies and information functions of all degrees. **89j:94014**

Fischer, Pal *see* **Christensen, Jens Peter Reus, 89d:43006** *and* **89f:43002**

Harte, Robin A note on generalized inverse functions. **89c:46063**

Kamowitz, Herbert (*with* Wortman, Dennis) Endomorphisms of an extremal algebra. **89g:47035**

Kominek, Z. On additive and convex functionals. (Serbo-Croatian summary) **89e:26029**

Kuczma, Marek On a result of Z. Kominek. (Serbo-Croatian summary) **89d:26012**

Kumari, K. (*with* Vasudeva, H. L.) On the functional equation $S(x+y)+S(x-y) = 2S(x)[1-2S^2(y/2)]$. **89i:39010**

Maska, Gy. *see* **Ebanks, Bruce, 89j:94014**

Moszner, Zenon Sur la définition de Hyers de la stabilité de l'équation fonctionnelle. (Russian and Polish summaries) [On Hyers' definition of the stability of a functional equation] **89i:39013**

Pachpatte, B. G. On a certain class of integral-functional equations. **89c:45013**

Vasudeva, H. L. *see* **Kumari, K., 89i:39010**

Volkmann, Peter *see* **Baron, Karol, 89m:39014**

Wortman, Dennis *see* **Kamowitz, Herbert, 89g:47035**

39B99 None of the above, but in this section

Items with secondary classifications in 39B99

Aczél, J. Scale-invariant equal sacrifice in taxation and conditional functional equations. **89e:90073**

Alsina, C. Truncations of distribution functions. **89g:60058**

Bézivin, Jean-Paul Indépendance linéaire des valeurs des solutions transcendantes de certaines équations fonctionnelles. (English summary) [Linear independence of the values of transcendental solutions of some functional equations] **89e:11039**

Drakhlin, M. E. A linear functional equation. (Russian) **89g:47033**

Heuvers, Konrad J. (*with* Waterhouse, William C.) Sums of weight vectors and sums of semilinear functions. **89b:15002**

Sklar, A. The structure of one-dimensional flows with continuous trajectories. (Serbo-Croatian summary) **89b:58180**

Waterhouse, William C. *see* **Heuvers, Konrad J., 89b:15002**

39C05 Functional inequalities [see also 26Dxx]

Cholewa, Piotr W. Almost approximately polynomial functions. **89e:39019**

Crstici, B. *see* **Dragomir, Sever Silvestru, 89c:39011**

Dragomir, Sever Silvestru (*with* Crstici, B.) Sur une inéquation fonctionnelle. (Romanian summary) [On a certain functional inequality] **89c:39011**

Nikodem, Kazimierz On concave and midpoint concave set-valued functions. (Serbo-Croatian summary) **89g:39017**

— Approximately quasiconvex functions. **89m:39018**

Páles, Zsolt On two-variable functional inequalities. **89a:39016**

Stopa, Maria On a linear iterative functional inequality of the third order. (Russian and Polish summaries) **89h:39014**

Tabor, Józef On functions behaving like additive functions. **89h:39015**

Wallace, Roger James Optimal solutions of restricted subadditive inequalities. (Not in MR)

Items with secondary classifications in 39C05

Aczél, J. Some recent results on information measures, a new generalization and some "real life" interpretations of the "old" and new measures. **89g:94014**

Forti, G. L. The stability of homomorphisms and amenability, with applications to functional equations. **89b:39013**

Ger, R. Almost approximately convex functions. (Russian summary) **89m:26020a**

— Errata for the paper: "Almost approximately convex functions". **89m:26020b**

Kominek, Z. On additive and convex functionals. (Serbo-Croatian summary) **89e:26029**

Kuczma, Marek On a result of Z. Kominek. (Serbo-Croatian summary) **89d:26012**

Ng, C. T. On midconvex functions with midconcave bounds. **89d:26013**

Pachpatte, B. G. On some integral inequalities similar to Hardy's inequality. **89a:26031**

Shen, Zong Hua Gronwall's inequality and its applications. (Chinese) **89g:26017**

Skof, Fulvia On the approximation of locally δ-additive mappings. (Italian. English summary) **89a:39015**

40–XX Sequences, series, summability

Items with secondary classifications in 40–XX

Cohen, Alan Max (*with* Longman, I. M.) The summation of power series having positive coefficients. (Not in MR)

Longman, I. M. *see* **Cohen, Alan Max**, (Not in MR)

40–01 Elementary exposition; textbooks

Zhao, Gen Rong (*with* Zheng, Xing Hua) Summation of divergent series. I. (Chinese) **89d:40001**

— (*with* Zheng, Xing Hua) Summation of divergent series. II. (Chinese) **89k:40001**

Zheng, Xing Hua *see* **Zhao, Gen Rong, 89d:40001** *and* **89k:40001**

Items with secondary classifications in 40–01

Il'in, V. A. (*with* Sadovnichiĭ, V. A.[1]; Sendov, Blagovest Kh.) ★ Математический анализ. 2. (Russian) [Mathematical analysis. 2] **89d:26001**

Sadovnichiĭ, V. A.[1] *see* **Il'in, V. A.; et al., 89d:26001**

Sendov, Blagovest Kh. *see* **Il'in, V. A.; et al., 89d:26001**

40–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40–03

(Cauchy, A.-L.) *see* **Laugwitz, Detlef, 89a:01036**

Laugwitz, Detlef Hidden lemmas in the early history of infinite series. **89g:01031**

— Infinitely small quantities in Cauchy's textbooks. (French and German summaries) **89a:01036**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Butković, Davor (*with* Kraljević, Hrvoje) Some notes on almost convergence. **89d:40002**

Dubeau, François (*with* Savoie, Jean) Généralisation de la série géométrique et applications. (English summary) [Generalization of geometric series, and applications] **89d:40003**

Erdős, Paul (*with* Joó, István; Székely, L. A.) Some remarks on infinite series. **89g:40001**

Foster, D. M. E. (*with* Phillips, G. M.) Double mean processes. **89c:40001**

Joó, István *see* **Erdős, Paul; et al., 89g:40001**

Kornilov, P. A. The Nikishin condition for the linearity of a set of sums of a series. (Russian) (*see* **89j:00036**)

— The set of sums of a conditionally converging function series. (Russian) **89k:40002**

— The structure of the set of sums of a function series. **89m:40001**

Kraljević, Hrvoje *see* **Butković, Davor, 89d:40002**

Lee, Sanboh (*with* Li, J. C. M.) Summation of infinite series related to roots of certain functions. **89c:40002**

Lewin, Jonathan (*with* Lewin, Myrtle) A simple test for the *n*th term of a series to approac zero. (Not in MR)

Lewin, Myrtle *see* **Lewin, Jonathan**, (Not in MR)

Li, J. C. M. *see* **Lee, Sanboh, 89c:40002**

Luan, Xiu Wei Remainder estimates for a class of convergent alternating series. II. (Chinese English summary) **89k:40003**

Lunin, A. A. Grouping of terms of a numerical series. **89k:40004**

Phillips, G. M. *see* **Foster, D. M. E., 89c:40001**

Savoie, Jean *see* **Dubeau, François, 89d:40003**

Song, Iickho A recursive formula for even order harmonic series. **89c:40003**

Szasz-Felten, Irmgard Ein Konvergenzsatz. (Romanian summary) [A theorem of convergence] **89f:40001**

Szegedy, Márió (*with* Tardos, Gábor) On the decomposition of infinite series into monotone decreasing parts. **89k:40005**

Székely, L. A. *see* **Erdős, Paul; et al., 89g:40001**

Tardos, Gábor *see* **Szegedy, Márió, 89k:40005**

Toader, Gh. On the rate of convergence of double sequences. **89j:40001**

Türnpu, H. Lebesgue functions with respect to mixed kernels. (Russian) (*see* **89j:00035**)

Vojtáš, Peter The strength of the comparison test versus gaps between convergent and divergent series. **89j:40002**

Items with secondary classifications in 40A05

Bugadze, V. M. Absolute convergence almost everywhere of a Fourier-Haar series of the superposition of functions. (Russian) (*see* **89j:00036**)

Dzagnidze, O. P. Hartogs-Fourier series. (Russian) (*see* **89j:00036**)

Glukhov, V. A. A comparison of (C,α) means, and a condition for Nikol'skiĭ-type summability of Fourier series in multiplicative systems. (Russian) (*see* **89j:00036**)

Jarník, Jiří *see* **Kurzweil, Jaroslav, 89m:34014**

Kadets, V. M. Bases with individual brackets and bases with individual permutations. (Russian) **89k:46018**

Kallman, Robert R. Subseries and category. **89g:46074**

Köhnlein, Dieter ★ Asymptotisches Verhalten von Lösungen stochastischer linearer Differenzengleichungen im $\mathbf{R}^d$. (German) [Asymptotic behavior of solutions of stochasti linear difference equations in $\mathbf{R}^d$] **89i:60049**

Kurbanov, V. M. Necessary and sufficient conditions for equiconvergence with trigonometric series of spectral expansions in a system of eigen- and associated functions of the Schrödinger operator. **89k:34033**

Kurzweil, Jaroslav (*with* Jarník, Jiří) A convergence effect in ordinary differential equation (Russian summary) **89m:34014**

Nabutovsky, Alexander Irrationality of limits of quickly convergent algebraic numbers sequences. **89h:11035**

Rosenblatt, Joseph Almost everywhere convergence of series. **89g:47012**

Scraton, R. E. A comparison of some Taylor and Chebyshev series. **89e:41036**

Shallit, Jeffrey Sur certains produits liés aux sommes des chiffres. [On certain products associated to sums of digits] **89j:11076**

Toader, Gh. Generalized means and double sequences. **89e:26002**

40A10 Convergence and divergence of integrals

Vichmann, F. Inclusion theorems with respect to the absolute summability of integrals for methods of Poisson-Abel type. (Russian. English summary) **89d:40004**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 89f:40002**

Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) On certain continued fractions related to ${}_3\Phi_2$ basic hypergeometric functions. **89f:40002**

Bosma, Wieb Optimal continued fractions. **89b:40001**

Fabrykowski, J. On continued fractions and a certain example of a sequence of continuou functions. **89i:40001**

— *see also* **Hensley, Doug, 89k:40006**

Hensley, Doug Errata: "On continued fractions and a certain example of a sequence of continuous functions [Amer. Math. Monthly **95** (1988), no. 6, 537–539; MR 89i:40001] by J. Fabrykowski. **89k:40006**

Sidhu, R. S. On the limit of a special continued fraction. (Not in MR)

Somashekara, D. D. *see* **Bhargava, Srinivasamurthy; et al., 89f:40002**

Waadeland, Haakon Linear approximations to continued fractions $K(z_n/1)$. **89c:40004**

Items with secondary classifications in 40A15

Bodnar, D. I. Positive-definite branching continued fractions. (Russian) (*see* **89j:00036**)

Cuyt, Annie A. M. (*with* Verdonk, Brigitte M.) A review of branched continued fraction theory for the construction of multivariate rational approximants. **89k:41018**

Denis, Remy Y. *see* **Verma, Arun; et al., 89c:33008**

Dumont, Dominique (*with* Kreweras, Germain) Sur le développement d'une fraction continue liée à la série hypergéométrique et son interprétation en termes de records et anti-records dans les permutations. (English summary) [Expansion of a continued fraction associated with the hypergeometric series, and its interpretation in terms of records and antirecords in permutations] **89c:30007**

Gill, John Limit periodic iteration. **89f:54061**

Hovstad, R. M. A reconsideration of the general parabola theorem in continued fractions. **89e:30005**

Jacobsen, Lisa General correspondence for continued fractions. **89d:30004**

— Uniform convergence of limit periodic generalized continued fractions. **89m:30007**

— (*with* Waadeland, Haakon) Convergence acceleration of limit periodic continued fractions under asymptotic side conditions. **89h:65010**

Jamieson, M. J. Acceleration techniques applied to some sequences of continued fractions. **89l:65004**

Kreweras, Germain *see* **Dumont, Dominique, 89c:30007**

Krishna, Bal (*with* Krishna, Hari; Wang, Yunbiao) Algorithms for z-domain continued fraction expansion by Davis. **89j:65027**

Krishna, Hari *see* **Krishna, Bal; et al., 89j:65027**

Lembarki, Alami Convergence acceleration of limit k-periodic continued fractions. **89j:65012**

Lunnon, W. F. Multidimensional continued fractions and their applications. **89g:11127**

Shah, Swarupchand M. *see* **Wiener, Joseph, 89b:34155**

Sorokin, V. N. The convergence of simultaneous Padé approximants to functions of Stieltjes type. (Russian) **89c:30009**

Srinivasa Rao, K. *see* **Verma, Arun; et al., 89c:33008**

Verdonk, Brigitte M. *see* **Cuyt, Annie A. M., 89k:41018**

Verma, Arun (*with* Denis, Remy Y.; Srinivasa Rao, K.) New continued fractions involving basic hypergeometric ${}_3\Phi_2$ functions. **89c:33008**

Waadeland, Haakon Computation of continued fractions by square-root modification: reflections and examples. **89g:65017**

— *see also* **Jacobsen, Lisa, 89h:65010**

Wang, Yunbiao *see* **Krishna, Bal; et al., 89j:65027**

Wiener, Joseph (*with* Shah, Swarupchand M.) Continued fractions arising in a class of functional-differential equations. **89b:34155**

Yoshino, Sayaka Analytic expressions for asymptotic forms of continued-fraction coefficients in the presence of a spectral gap. **89i:81153**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Bassali, W. A. Summation of certain infinite series involving $\delta_n = \frac{1\cdot 3\cdot 5\cdots(2n-1)}{2\cdot 4\cdot 6\cdots(2n)}$. (Spanish summary) **89k:40007**

Choe, Boo Rim An elementary proof of $\sum_{n=1}^{\infty} 1/n^2 = \pi^2/6$. (Not in MR)

Fricke, Arnold Die Potenzsummenformeln und ihre Struktur. [Formulas for sums of powers and their structure] **89k:40008**

Harper, James D. Estimating the sum of alternating series. (Not in MR)

Zhao, Chong Ding On the summation of several classes of series. (Chinese. English summary) **89e:40001**

Items with secondary classifications in 40A25

Arkhipov, G. I. (*with* Chubarikov, V. N.) On some summation formulas. (Russian) **89a:11008**

Chubarikov, V. N. *see* **Arkhipov, G. I., 89a:11008**

Costovici, Gh. *see* **Popovici, Elena; et al., 89m:65024**

Han, Jin Xuan Using Newton's formula to find directly the general term and summation formula of a linear recurrent sequence of numbers. (Chinese) **89k:11006**

Imiya, Atsushi (*with* Sasaki, Toshio; Ogawa, Hidemitsu) Signal smoothing by summation—generalized Fejér method and generalized Lanczos method. **89j:94005**

Jerri, Abdul J. An extended Poisson type sum formula for general transforms and aliasing error bound for the generalized sampling theorem. **89d:44001**

Ling, Chih-Bing Extension of summation of series of hyperbolic functions. **89d:33004**

Lochs, G. Über die Koeffizienten der asymptotischen Reihen für den Korrekturfaktor der Stirlingschen Formel und einen speziellen Wert der unvollständigen Gammafunktion. [On the coefficients of the asymptotic series for the correction factor of the Stirling formula and a special value of the incomplete gamma function] **89g:33002**

— Supplement to the paper: "On the coefficients of the asymptotic series for the correction factor of the Stirling formula and a special value of the incomplete gamma function" [Österreich. Akad. Wiss. Math.-Natur. Kl. Sitzungsber. II **196** (1987), no. 1-3, 27–37; MR 89g:33002]. (German) **89m:33004**

Longman, I. M. Complementary moments and the summation of series. **89b:65015**

— The summation of alternating and monotonic series. **89b:65016**

McClain, W. D. *see* **Proulx, R. J., 89k:70020**

Ogawa, Hidemitsu *see* **Imiya, Atsushi; et al., 89j:94005**

Pezzoli, Giannantonio On the Riemann $\zeta(n)$ function and the sum of harmonic series. (Italian) **89i:11016**

Popovici, Constantin Ioan *see* **Popovici, Elena; et al., 89m:65024**

Popovici, Elena (*with* Costovici, Gh.; Popovici, Constantin Ioan) The calculation of sums of harmonic series of even power. (Romanian summary) **89m:65024**

Proulx, R. J. (*with* McClain, W. D.) Series representations and rational approximations for Hansen coefficients. **89k:70020**

Sasaki, Toshio *see* **Imiya, Atsushi; et al., 89j:94005**

40A30 Convergence and divergence of series and sequences of functions

de Doelder, P. J. A note on: "Proof of a remarkable identity" [Simon Stevin **58** (1984), no. 3, 219–241; MR 86a:40002] by C. C. Grosjean. **89g:40002**

(Grosjean, Carl C.) *see* **de Doelder, P. J., 89g:40002**

Kornilov, P. A. On conditionally convergent series of sequences and functions. (Russian) **89a:40001**

Pavlov, Stancho V. Two analogues of a theorem of Toeplitz. (Bulgarian. English summary) **89g:40003**

Volpato Martinelli, Giuseppina A characterization of convergence in L^1. (Italian) **89a:40002**

Items with secondary classifications in 40A30

Druck, Iole F. (*with* Reyes, Gonzalo E.) Sur la convergence de suites de fonctions suivant des filtres. [On the convergence of sequences of functions over filters] **89m:26024**

Hensz, Ewa On a Weyl theorem in von Neumann algebras. (Russian summary) **89c:46081**

Połubiński, Jerzy On some infinite sequences of superpositions of real functions. (Russian and Polish summaries) **89m:26005**

Reyes, Gonzalo E. *see* **Druck, Iole F., 89m:26024**

40A99 None of the above, but in this section

Items with secondary classifications in 40A99

Shtraus, V. A. On a definable analogue of the Hausdorff moment problem. (Russian. Armenian summary) **89a:44016**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Móricz, F. (*with* Rhoades, B. E.) Almost convergence of double sequences and strong regularity of summability matrices. **89j:40003**

Rhoades, B. E. *see* **Móricz, F., 89j:40003**

Items with secondary classifications in 40B05

Köhnlein, Dieter ★ Asymptotisches Verhalten von Lösungen stochastischer linearer Differenzengleichungen im $\mathbf{R}^d$. (German) [Asymptotic behavior of solutions of stochastic linear difference equations in $\mathbf{R}^d$] **89i:60049**

40Cxx General summability methods

40C05 Matrix methods

Ahmad, Z. U. (*with* Mursaleen) An application of Banach limits. **89g:40004**

Ahun, T. *see* **Kolk, E., 89c:40007**

Al-Madi, Azmi K. On translativity of the product of Nörlund-weighted mean summability methods. **89c:40005**

Cakalli, H. s-absolute almost convergent sequences. **89k:40009**

Choudhary, B. An extension of Knopp's core theorem. **89g:40005**

Das, Gokulananda (*with* Savaş, Ekrem) Infinite matrices and summable series. (Not in MR)

Fricke, Gerd H. (*with* Fridy, J. A.) Matrix summability of geometrically dominated series. **89a:40003**

Fridy, J. A. *see* **Fricke, Gerd H., 89a:40003**

Kolk, E. Summation of stretchings of sequences in locally convex spaces. (Russian. English summary) **89c:40006**

— (*with* Ahun, T.) Summability by scalar matrices in abstract spaces. (Russian. English summary) **89c:40007**

Mursaleen *see* **Ahmad, Z. U., 89g:40004**

Ng, Peng Nung Matrix transformations on a pair of mutually associate spaces of a nonabsolutely type. **89a:40004**

Noll, Dominikus (*with* Stadler, Wolfgang) Zerlegungen von Wachstumsbereichen und Wirkfeldern für die Verfahren bewichteter Mittel. (English summary) [Decompositions of growth domains and action fields for the methods of weighted means] **89a:40005**

Parameswaran, Mangalam R. Some new product theorems in summability. **89e:40002**

Savaş, Ekrem *see* **Das, Gokulananda, (Not in MR)**

Stadler, Wolfgang *see* **Noll, Dominikus, 89a:40005**

Vučković, Vladeta Mercerian theorems for Beekmann matrices. **89a:40006**

Zhavoronkov, V. D. An operator method of summability. (Russian) **89g:40006**

Items with secondary classifications in 40C05

Bala, Renu (*with* Ram, Babu) On the degree of approximation of a class of functions by means of Fourier series. **89d:42011**

Barve, S. *see* **Chandra, Prem, 89m:40002**

Chandra, Prem (*with* Barve, S.) On the absolute equivalence of T-matrices for a sequence space. **89m:40002**

Huang, Jin Sheng On the sequence space $\mathrm{Ces}_p(E)$. (Chinese. English summary) **89b:46012**

Kumar, Narendra^2 *see* **Mittal, M. L.; et al., 89d:42016**

Leĭger, T. (*with* Maasik, M.) The λ-inclusion of summation matrices. (Russian. German summary) **89e:40004**

Maasik, M. *see* **Leĭger, T., 89e:40004**

Mittal, M. L. (*with* Prasad, Govind; Kumar, Narendra^2) On multipliers for the absolute matrix summability. **89d:42016**

Natarajan, P. N. Characterization of regular and Schur matrices over non-Archimedean fields. **89b:46088**

Orhan, C. On absolute summability. **89h:40005**

Pehlivan, S. A study of some incomplete paranormed spaces and related matrix transformations. **89k:46012**

Prasad, Govind *see* **Mittal, M. L.; et al., 89d:42016**

Ram, Babu *see* **Bala, Renu, 89d:42011**

Rhoades, B. E. Matrix summability of Fourier series based on inclusion theorems. II. **89b:42007**

Savaş, Ekrem Matrix transformations and absolute almost convergence. **89g:40010**
Vojtáš, Peter More on set-theoretic characteristics of summability of sequences by regular (Toeplitz) matrices. **89e:03090**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Items with secondary classifications in 40C15
Chandrasekhara Rao, K. The Cesàro space of null sequences. **89e:40003**

40Dxx Direct theorems on summability

40D05 General theorems

Items with secondary classifications in 40D05
Cakalli, H. *s*-absolute almost convergent sequences. **89k:40009**
Fricke, Gerd H. (*with* Fridy, J. A.) Matrix summability of geometrically dominated series. **89a:40003**
Fridy, J. A. *see* **Fricke, Gerd H., 89a:40003**

40D09 Structure of summability fields

Items with secondary classifications in 40D09
Beekmann, W. (*with* Chang, Shao-Chien) Summability domains not containing φ. **89k:40011**
Chang, Shao-Chien *see* **Beekmann, W., 89k:40011**
Móricz, F. (*with* Rhoades, B. E.) Almost convergence of double sequences and strong regularity of summability matrices. **89j:40003**
Rhoades, B. E. *see* **Móricz, F., 89j:40003**

40D10 Tauberian constants and oscillation limits

Items with secondary classifications in 40D10.
Vučković, Vladeta Mercerian theorems for Beekmann matrices. **89a:40006**

40D15 Convergence factors and summability factors

Aasma, A. Matrix transformations of summability fields. (Russian. English summary) **89d:40005**
Bor, Hüseyin A note on $|\overline{N}, q_n|_k$ summability factors. **89f:40003**

Items with secondary classifications in 40D15
Bor, Hüseyin On the absolute Cesàro summability factors of infinite series. (Serbo-Croatian summary) **89h:40002**
— Absolute summability factors for infinite series. **89h:40003**
— On the absolute φ-summability factors of infinite series. **89h:40004**
Mishra, K. N. (*with* Srivastava, R. S. L.) Absolute summability factors for Nörlund means. **89i:40002**
Srivastava, R. S. L. *see* **Mishra, K. N., 89i:40002**

40D20 Summability and bounded fields of methods

Barkar′, M. A. (*with* Krupnik, I. N.) The set of Cesàro limits of subsequences and permutations. (Russian) **89k:40010**
Beekmann, W. (*with* Chang, Shao-Chien) Summability domains not containing φ. **89k:40011**
Chang, Shao-Chien *see* **Beekmann, W., 89k:40011**
Krupnik, I. N. *see* **Barkar′, M. A., 89k:40010**

Items with secondary classifications in 40D20
Ford, William F. *see* **Keagy, Thomas A., 89e:65004**
Keagy, Thomas A. (*with* Ford, William F.) Acceleration by subsequence transformations. **89e:65004**
Móricz, F. (*with* Rhoades, B. E.) Almost convergence of double sequences and strong regularity of summability matrices. **89j:40003**
Rhoades, B. E. *see* **Móricz, F., 89j:40003**

40D25 Inclusion and equivalence theorems

Barve, S. *see* **Chandra, Prem, 89m:40002**
Chandra, Prem (*with* Barve, S.) On the absolute equivalence of T-matrices for a sequence space. **89m:40002**
Chandrasekhara Rao, K. The Cesàro space of null sequences. **89e:40003**
Leiger, T. (*with* Maasik, M.) The λ-inclusion of summation matrices. (Russian. German summary) **89e:40004**
Maasik, M. *see* **Leiger, T., 89e:40004**
Maddox, I. J. Statistical convergence in a locally convex space. **89k:40012**
Savaş, Ekrem Infinite matrices and generalized almost convergence. (Turkish summary) **89b:40002**
Tũrnpu, H. (*with* Virkus, A.) An inclusion with rapidity of summation methods in a class of function series. (Russian. English summary) **89f:40004**
Virkus, A. *see* **Tũrnpu, H., 89f:40004**

Items with secondary classifications in 40D25
Kõrle, Hans-Heinrich On the Nörlund means generated by real powers of n. **89c:40010**

Móricz, F. (*with* Rhoades, B. E.) Almost convergence of double sequences and strong regularity of summability matrices. **89j:40003**
Nanda, Sudarsan Absolute almost convergence and absolute almost summability. (Serbo-Croatian summary) **89j:40005**
Orhan, C. On absolute summability. **89h:40005**
Parameswaran, Mangalam R. Some new product theorems in summability. **89e:40002**
Pehlivan, S. A study of some incomplete paranormed spaces and related matrix transformations. **89k:46012**
Rhoades, B. E. *see* **Móricz, F., 89j:40003**
Vichmann, F. Inclusion theorems with respect to the absolute summability of integrals for methods of Poisson-Abel type. (Russian. English summary) **89d:40004**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Holland, Finbarr Extensions of Milin's Tauberian theorem. **89h:40001**
Rath, D. Tauberian theorems for absolute summability. **89g:40007**
Slepenchuk, K. M. Theorems of Tauberian type for the case of summation of double series by the Borel method. (Russian) **89b:40003**
Tietz, Hubert (*with* Trautner, Rolf) Tauber-Sätze für Potenzreihenverfahren. [Taubian theorems for power series methods] **89g:40008**
Trautner, Rolf *see* **Tietz, Hubert, 89g:40008**

Items with secondary classifications in 40E05
Allan, G. R. (*with* O'Farrell, Anthony G.; Ransford, T. J.) A Tauberian theorem arising in operator theory. **89c:47003**
Borbély, Albert Univalency as Tauberian condition. **89m:30004**
Borwein, David (*with* Markovich, Tom) A Tauberian theorem concerning Borel-type and Cesàro methods of summability. **89c:40011**
— (*with* Markovich, Tom) Cesàro and Borel-type summability. **89f:40005**
Drozhzhinov, Yu. N. *see* **Vladimirov, V. S.; et al., 89j:46043**
Geluk, J. L. (*with* de Haan, L.) ★ Regular variation, extensions and Tauberian theorems. **89a:26002**
de Haan, L. *see* **Geluk, J. L., 89a:26002**
Maddox, I. J. Statistical convergence in a locally convex space. **89k:40012**
Markovich, Tom *see* **Borwein, David, 89c:40011** *and* **89f:40005**
Mel′nik, V. I. Some applications of Tauberian theorems with a remainder for the Laplace transform in probability theory. **89e:44001**
O'Farrell, Anthony G. *see* **Allan, G. R.; et al., 89c:47003**
Omey, E. (*with* Willekens, Eric) Π-variation with remainder. **89g:26001**
Ransford, T. J. *see* **Allan, G. R.; et al., 89c:47003**
Rohtla, A. (*with* Tali, A.) A Tauberian theorem for a family of generalized Nörlund methods. (Russian. English summary) **89b:40004**
Tali, A. *see* **Rohtla, A., 89b:40004**
Tanaka, Chuji On a new one-sided Tauberian theorem. **89a:40008**
Vladimirov, V. S. (*with* Drozhzhinov, Yu. N.; Zav′yalov, B. I.) ★ Tauberian theorems for generalized functions. **89j:46043**
Watson, Bruce A Tauberian theorem between generalized logarithmic and Abel-type summability methods. **89g:40011**
Willekens, Eric *see* **Omey, E., 89g:26001**
Zav′yalov, B. I. *see* **Vladimirov, V. S.; et al., 89j:46043**

40E10 Growth estimates

Rohtla, A. (*with* Tali, A.) A Tauberian theorem for a family of generalized Nörlund methods. (Russian. English summary) **89b:40004**
Tali, A. *see* **Rohtla, A., 89b:40004**

40E15 Lacunary inversion theorems

Jakimovski, A. (*with* Meyer-König, W.; Zeller, K.) Refined Tauberian gap theorems for power series methods of summability. **89b:40005**
Meyer-König, W. *see* **Jakimovski, A.; et al., 89b:40005**
Zeller, K. *see* **Jakimovski, A.; et al., 89b:40005**

40E99 None of the above, but in this section

Items with secondary classifications in 40E99
Ransford, T. J. Some quantitative Tauberian theorems for power series. **89g:30005**

40F05 Absolute and strong summability

Al-Madi, Azmi K. On translativity of absolute Rogosinski-Bernstein summability methods. **89j:40004**
Bor, Hüseyin On the absolute Cesàro summability factors of infinite series. (Serbo-Croatian summary) **89h:40002**
— Absolute summability factors for infinite series. **89h:40003**
— On the absolute φ-summability factors of infinite series. **89h:40004**
Mishra, K. N. (*with* Srivastava, R. S. L.) Absolute summability factors for Nörlund means. **89i:40002**
Nanda, Sudarsan Absolute almost convergence and absolute almost summability. (Serbo-Croatian summary) **89j:40005**
Oganesyan, S. M. On the absolute summability of orthogonal series. (Russian. Armenian summary) (*see* **89c:00021**)
Orhan, C. On absolute summability. **89h:40005**
Panda, S. P. *see* **Samantray, U. N.**, (Not in MR)

Rempulska, Lucyna On the relation between the summability methods (C,α,β) and (A,m,n) of double series. **89g:40009**
Samantray, U. N. (*with* Panda, S. P.) On some inclusion theorems for absolute Nörlund summability methods. (Not in MR)
Savaş, Ekrem Matrix transformations and absolute almost convergence. **89g:40010**
Soomer, V. Sequential methods for strong summation and convergence with respect to the zero class. (Russian. English summary) **89c:40008**
Srivastava, R. S. L. *see* **Mishra, K. N., 89i:40002**
Tali, A. The interrelations between strong summability with rapidity and ordinary summability with rapidity in locally convex spaces. (Russian. English summary) **89e:40005**
Yadav, Sarjoo Prasad Convergence and absolute Cesàro summability of Jacobi series. (Not in MR)

Items with secondary classifications in 40F05

Bor, Hüseyin A note on $|\overline{N},q_n|_k$ summability factors. **89f:40003**
Chandra, Prem Absolute summability factors. **89i:42017**
Henrich, Wolfgang Absolute und starke Summierbarkeit von Orthogonalreihen mit Hausdorff-Verfahren. [Absolute and strong summability of orthogonal series by Hausdorff methods] **89g:42044**
Kumar, Narendra^2 *see* **Mittal, M. L.; et al., 89d:42016**
Mittal, M. L. (*with* Prasad, Govind; Kumar, Narendra^2) On multipliers for the absolute matrix summability. **89d:42016**
Prasad, Govind *see* **Mittal, M. L.; et al., 89d:42016**
Rath, D. Tauberian theorems for absolute summability. **89g:40007**
Rempulska, Lucyna Some properties of summability methods of the Abel type. II. **89b:42006**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Borwein, David (*with* Markovich, Tom) Cesàro and Borel-type summability. **89f:40005**
Chandra, Prem (*with* Sharma, M. M.) Corrigenda to: "Some applications of the absolute Euler summability to Legendre series" [J. Indian Math. Soc. (N.S.) 47 (1983), no. 1-4, 123–138]. (Not in MR)
Connor, J. S. The statistical and strong p-Cesàro convergence of sequences. **89k:40013**
Gaposhkin, V. F. Summation of weakly dependent sequences by Cesàro methods. (Russian summary) **89c:40009**
Georgakis, Constantine Bounded sequence-to-function Hausdorff transformations. **89i:40003**
Khare, Satya Prakash On the (N,p_n^α) summability of Jacobi series. **89a:40007**
Körle, Hans-Heinrich On the Nörlund means generated by real powers of n. **89c:40010**
Markovich, Tom *see* **Borwein, David, 89f:40005**
Rhoades, B. E. The spectrum of weighted mean operators. **89d:40006**
Sharma, M. M. *see* **Chandra, Prem**, (Not in MR)
Tanaka, Chuji On a new one-sided Tauberian theorem. **89a:40008**
Zhang, Yi Qian An extension of a theorem of Davydov. (Chinese) **89e:40006**

Items with secondary classifications in 40G05

Andrienko, V. A. Cesàro summability of orthogonal series. (Russian) (*see* **89j:00035**)
Bor, Hüseyin On the absolute Cesàro summability factors of infinite series. (Serbo-Croatian summary) **89h:40002**
— Absolute summability factors for infinite series. **89h:40003**
— On the absolute φ-summability factors of infinite series. **89h:40004**
D'yachenko, M. I. Trigonometric series with monotone coefficients. (Russian) (*see* **89j:00036**)
Fricke, Gerd H. (*with* Fridy, J. A.) Matrix summability of geometrically dominated series. **89a:40003**
Fridy, J. A. *see* **Fricke, Gerd H., 89a:40003**
Huang, Jin Sheng On the sequence space $\mathrm{Ces}_p(E)$. (Chinese. English summary) **89b:46012**
Mishra, K. N. (*with* Srivastava, R. S. L.) Absolute summability factors for Nörlund means. **89i:40002**
Okutoyi, J. (*with* Thorpe, B.) The spectrum of the Cesàro operator on $c_0(c_0)$. **89i:47051**
Panda, S. P. *see* **Samantray, U. N.**, (Not in MR)
Rempulska, Lucyna On the relation between the summability methods (C,α,β) and (A,m,n) of double series. **89g:40009**
Rhoades, B. E. Matrix summability of Fourier series based on inclusion theorems. II. **89b:42007**
Rohtla, A. (*with* Tali, A.) A Tauberian theorem for a family of generalized Nörlund methods. (Russian. English summary) **89b:40004**
Russell, Dennis C. A note on Mathieu's inequality. **89j:26019**
Samantray, U. N. (*with* Panda, S. P.) On some inclusion theorems for absolute Nörlund summability methods. (Not in MR)
Srivastava, R. S. L. *see* **Mishra, K. N., 89i:40002**
Sulaiman, W. T. Multipliers for $|C,1|$ summability of Jacobi series. **89c:42011**
Tali, A. *see* **Rohtla, A., 89b:40004**
Thorpe, B. *see* **Okutoyi, J., 89i:47051**
Walter, Gilbert G. Sampling bandlimited functions of polynomial growth. **89h:42007**
Zhao, Gen Rong (*with* Zheng, Xing Hua) Summation of divergent series. I. (Chinese) **89d:40001**
— (*with* Zheng, Xing Hua) Summation of divergent series. II. (Chinese) **89k:40001**
Zheng, Xing Hua *see* **Zhao, Gen Rong, 89d:40001** *and* **89k:40001**

40G10 Abel, Borel and power series methods

Borwein, David (*with* Markovich, Tom) A Tauberian theorem concerning Borel-type and Cesàro methods of summability. **89c:40011**
Markovich, Tom *see* **Borwein, David, 89c:40011**
Soni, K. *see* **Soni, R. P., 89c:40012**
Soni, R. P. (*with* Soni, K.) On a class of Borel-type summability methods. **89c:40012**
Tripathi, L. M. (*with* Yadav, V. P.) On Borel summability of Legendre series. **89a:40009**
Watson, Bruce A Tauberian theorem between generalized logarithmic and Abel-type summability methods. **89g:40011**
Yadav, V. P. *see* **Tripathi, L. M., 89a:40009**

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Fricke, Gerd H. (*with* Fridy, J. A.) Matrix summability of geometrically dominated series. **89a:40003**
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40G99 None of the above, but in this section

Al-Madi, Azmi K. On translativity of absolute weighted mean methods. **89e:40007**
Gluzdovskiĭ, V. V. A class of linear summability methods generated by V. I. Volkov operators. (Russian) **89b:40006**
Kwee, B. On a conjecture on Riemann summability (R,k). **89i:40004**
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40H05 Functional analytic methods in summability

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Lamp, Jüri (*with* Tali, A.) The summability with rapidity of generalized sequences in Banach spaces. (Russian. English summary) **89d:40007**
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Zhang, Wen Yao Geometric properties of Cesàro sequence spaces. (Chinese. English summary) **89j:40007**

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40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

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Jha, S. N. (*with* Ranjana) Some summability processes in a non-Archimedean valuated field of characteristic zero. **89j:26021**
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41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41–00 Handbooks, dictionaries, and other reference works

Franke, Richard (*with* Schumaker, L. L.) A bibliography of multivariate approximation. **89a:41001**
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41–02 Advanced exposition (research surveys, monographs, etc.)

Dickmeis, W. (*with* Nessel, R. J.; van Wickeren, E.) Quantitative extensions of the uniform boundedness principle. **89h:41001**
Ditzian, Z. (*with* Totik, V.) ★ Moduli of smoothness. **89h:41002**
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Xu, Li Zhi (*with* Yang, Jia Xin) A survey of recent developments in multivariate approximation. (Chinese. English summary) **89e:41001**
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Popov, Vasil Atanasov *see* **Petrushev, Pencho P., 89i:41022**
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41–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 41–03

(Gnedenko, B. V.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
Grodzenskiĭ, S. Ya. ★ Андрей Андреевич Марков. 1856–1922. (Russian) [Andreĭ Andreevich Markov. 1856–1922] **89a:01062**
Korneĭchuk, N. P. S. M. Nikol′skiĭ and the Soviet school of approximation theory. (Russian) **89d:01075**
(Malyshev, A. V.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
(Markov, Andreĭ Andreevich) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
(Nikol′skiĭ, S. M.) *see* **Korneĭchuk, N. P., 89d:01075**
(Suetin, P. K.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**

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Biography:
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41–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 41–04

Mertzios, B. G. *see* **Papamarkos, N.; et al., 89e:90136**
Papamarkos, N. (*with* Vachtsevanos, G.; Mertzios, B. G.) On the optimum approximation of real rational functions via linear programming. **89e:90136**
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41–06 Proceedings, conferences, etc.

(Dzyadyk, V. K.) *see* **Investigations in the theory of the approximation of functions, 89b:41003** *and* **Some problems in the theory of the approximation of functions, and their applications, 89i:41003**
(Gabibzade, A. Sh.) *see* **Approximation by generalized analytic and spherical functions, 89b:41001**
(Gómez Fernández, Juan Alfredo) *see* **Approximation and optimization, 89k:41001**
(Guerra, Francisco) *see* **Approximation and optimization, 89k:41001**
(Jiménez Pozo, Miguel A.) *see* **Approximation and optimization, 89k:41001**
(López Lagomasino, Guillermo) *see* **Approximation and optimization, 89k:41001**
(Subbotin, Yu. N.) *see* **Approximation in concrete and abstract Banach spaces, 89b:41002**
(Taĭkov, L. V.) *see* **Application of functional analysis in approximation theory, 89i:41002**

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Approximation by generalized analytic and spherical functions ★ Приближение обобщенными аналитическими и сферическими функциями. (Russian) [Approximation by generalized analytic and spherical functions] **89b:41001**
Approximation in concrete and abstract Banach spaces ★ Аппроксимация в конкретных и абстрактных банаховых пространствах. (Russian) [Approximation in concrete and abstract Banach spaces] **89b:41002**
Havana ★ Approximation and optimization. **89k:41001**
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  Approximation and Optimization ★ Approximation and optimization. **89k:41001**
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(Ibragimov, I. I.) *see* **Special problems in function theory, 89f:30003** *and* **89f:30004**
(Maksudov, F. G.) *see* **Special problems in function theory, 89f:30004**
(Milovanović, Gradimir V.) *see* **Numerical methods and approximation theory, 89c:65007**
(Napalkov, V. V.) *see* **Investigations in the theory of the approximation of functions, 89g:30002**
(Nikol′skiĭ, S. M.) *see* **Studies in the theory of differentiable functions of several variables and its applications, 89a:46004**
(Papini, Pier Luigi) *see* **Functional analysis and approximation, 89m:46002**

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Cluj-Napoca ★ Seminar on Numerical and Statistical Calculus. **89c:00027**
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  Functional Analysis and Approximation ★ Functional analysis and approximation. **89m:46002**
  Numerical Methods and Approximation Theory ★ Numerical methods and approximatio theory. III. **89c:65007**
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41A05 Interpolation [see also 42A15 and 65D05]

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41A17 Inequalities in approximation (Bernstein, Jackson, Nikol′skiĭ type inequalities)

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41A20 Approximation by rational functions

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41A21 Padé approximation

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41A25 Rate of convergence, degree of approximation

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41A27 Inverse theorems

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41A28 Simultaneous approximation

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41A29 Approximation with constraints

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Ubhaya, Vasant A. An asymptotic result for the degree of approximation by monotone polynomials. **89d:41039**
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Zhu, Chang Zhong (*with* Dunham, Charles B.) Biased varisolvent Chebyshev approximation on subsets. **89i:41025**
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(Passow, Eli) *see* **Liu, Rui Zhi, 89m:41021**
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— Convergence rates for constrained spline functions. **89d:41029**
Yu, Xiang Ming Monotone polynomial approximation in L_p space. **89h:41016**

41A30 Approximation by other special function classes

Avdispahić, Muharem Note on approximation in locally compact abelian groups. **89i:41026**
Babaev, M.-B. A. Direct theorems for the approximation of functions of several variables by sums of functions of a smaller number of variables [Reviewed in RZhMat 1982:12 B135] (Russian) (*see* **89f:30004**)
— One-sided approximation of a function of several variables by the products of functions of a smaller number of variables. (Russian) **89m:41015**
Gadzhiev, G. A. (*with* Kuliev, N. G.) Approximation of functions of several variables by eigenfunctions of multiparameter spectral problems. (Russian) (*see* **89b:41001**)
Ganzburg, M. I. Exact constants of the best harmonic approximation of a function of several variables. **89d:41040**
Hwang, Jun Shung (*with* Lin, Kuo Tung) Nonlinear approximation and moment problem. **89c:41020**
Khavinson, Dmitry On uniform approximation by harmonic functions. **89a:41026**
Kuliev, N. G. *see* **Gadzhiev, G. A., (89b:41001)**
Lewis, John L. Approximations of Sobolev functions and related topics. **89e:41024**
Lin, Kuo Tung *see* **Hwang, Jun Shung, 89c:41020**
Prolla, João B. Approximation by positive elements of subalgebras of real-valued functions. **89e:41025**
Shaginyan, A. A. On potential approximation of vector fields. **89b:41026**
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Vinogradov, O. M. Necessary conditions for the continuability of Markov systems. (Russian) **89b:41027**
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Andrievskiĭ, V. V. Constructive description of classes of harmonic functions with singularities on a quasiconformal arc. **89d:31001**
Armitage, D. H. (*with* Goldstein, Myron) Quadrature and harmonic L^1-approximation in annuli. **89k:31004**
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Fisher, Michael Ellis *see* **Randeria, M., 89m:35012**
Gerber, I. Approximation by the kernel of an elliptic operator. (Russian) (*see* **89f:00013**)
Goldstein, Myron (*with* Haussmann, Werner; Rogge, Lothar) On the mean value property of harmonic functions and best harmonic L^1-approximation. **89d:31010**
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de Groen, Pieter P. N. The fit of a sum of exponentials to data. **89a:65023**
Hamann, Uwe Approximation durch Lösungen elliptischer Randwertprobleme auf geschlossenen Hyperflächen. [Approximation by solutions of elliptic boundary value problems on closed hypersurfaces] **89h:35095a**
— Zum Zusammenhang zwischen der Eindeutigkeitseigenschaft des Cauchy-Problems im Kleinen und der Approximation durch Lösungen elliptischer Differentialgleichungen. [O the connection between the property of uniqueness for the Cauchy problem in the small and the approximation by solutions of elliptic differential equations] **89h:35095b**
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Rogge, Lothar *see* **Goldstein, Myron; et al., 89d:31010**
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Sinha, N. K. *see* **Lastman, G. J., 89g:93009**

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41A35 Approximation by operators (in particular, by integral operators)

Akhadov, R. A. Asymptotic approximation of multiply differentiable functions of two variables by some general families of integral operators. (Russian) **89i:41027**
Baskakov, V. A. Comparison of orders of approximation of the classes $W^r H_{\omega p}$ by linear polynomial operators. (Russian) **89a:41027**
Cho, Chong-Man Best approximation by certain compact operators on $L^p(\{-1,1\}^N)$. **89b:41028**
Guseĭnov, G. A. On the order of approximation by generalized Gel′fond operators [Reviewed in RZhMat 1978:3 B166]. (Russian) (*see* **89f:30003**)
— On a theorem of A. O. Gel′fond. (Russian) **89e:41027**
Khan, Rasul A. A note on a Bernstein-type operator of Bleimann, Butzer, and Hahn. **89j:41033**
Manole, Constantin Approximation operators of binomial type. (*see* **89c:00027**)
Mencher, A. È. Linear positive operators on the semi-axis constructed by means of generating functions. (Russian) (*see* **89f:00013**)
Musielak, Julian Approximation of elements of a generalized Orlicz sequence space by nonlinear, singular kernels. **89a:41028**
Naĭko, D. A. Improvement of the convergence of multidimensional operators of type B. (Russian) **89h:41045**
Pendina, T. P. Approximation of differentiable functions by Bernstein modifications of some positive operators. (Russian) **89h:41046**
— Iterations of positive linear operators of exponential type and of Landau polynomials. (Russian) **89a:41029**
Petukhov, A. P. Approximation of functions by singular integrals in the Hausdorff metric. **89j:41034**
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Wu, Jie[1] Some properties of Bernstein-Durrmeyer operators for two variables. (Chinese) **89c:41021**
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Galeev, È. M. Orders of orthoprojection widths of classes of periodic functions of one and several variables. **89g:42004**
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Musielak, Julian Some applications of generalized Orlicz spaces in approximation theory and Fourier series. **89a:41043**
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Pilidi, V. S. Uniform invertibility of regular approximations of one-dimensional singular integral operators. **89i:45007**
Razi, Q. (*with* Umar, S.) On Bernstein type operators. (Serbo-Croatian summary) **89g:41014**
da Silva, Manuel R. Approximation properties of a new sequence of polynomial operators of Bernstein-Micchelli's type. **89k:41008**
Umar, S. *see* **Razi, Q., 89g:41014**
Videnskiĭ, V. S. (*with* Pendina, T. P.) Theorems of Voronovskaya type for optimal sequences of linear positive operators. (Russian) (*see* **89j:00036**)

41A36 Approximation by positive operators

Anastassiou, George A. Multidimensional quantitative results for probability measures approximating the unit measure. **89a:41030**
Blümlinger, Martin Approximation durch Bernsteinoperatoren auf kompakten konvexen Mengen. (English summary) [Approximation with Bernstein operators on compact convex sets] **89j:41035**
Chen, Wen Zhong (*with* Guo, Shun Sheng) The degree of pointwise convergence of some positive linear operators on functions of bounded variation. (Chinese. English summary) **89h:41047**
Chui, C. K. (*with* He, Tian Xiao; Xu, Li Zhi) Asymptotic properties of positive summation-integral operators. **89k:41028**
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Gao, Fu Hong (*with* Wang, Zi Yu) Approximation of discontinuous functions by Kantorovich operators. (Chinese. English summary) **89k:41029**
Gonska, Heinz H. (*with* Meier-Gonska, Jutta) On approximation by Bernstein-type operators: best constants. **89d:41041**
Guo, Shun Sheng Generalized convexity and pointwise saturation. (Chinese) **89j:41037**
— *see also* **Chen, Wen Zhong, 89h:41047**
He, Tian Xiao *see* **Chui, C. K.; et al., 89k:41028**
Ibragimov, I. I. (*with* Gadzhiev, A. D.) A general sequence of positive linear operators in a space of continuous functions [Reviewed in RZhMat 1978:5 B62]. (Russian) (*see* **89f:30003**)
Ivanov, V. I. (*with* Pichugov, S. A.) Approximation of periodic functions in L_p by linear positive methods, and multiple moduli of continuity. (Russian) **89h:41048**
Maligranda, Lech Korovkin theorem in symmetric spaces. **89a:41031**
Mastroianni, G. (*with* Occorsio, M. R.) A new operator of Bernstein type. **89d:41042**
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Naĭko, D. A. Direct and inverse theorems for the approximation of functions by combinations of operators of class B. (Russian) **89e:41029**
— Approximation of derivatives by certain combinations of operators of class B. (Russian) **89f:41028**
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Shakhverdiev, V. M. A sequence of linear positive operators in a space of continuous functions. (Russian) **89f:41029**
— Linear aggregates of the approximation of continuous functions in weighted spaces. (Russian. English and Azerbaijani summaries) **89c:41022**
Singh, Suresh Prasad On approximation by modified Szâsz operators. **89a:41032**
— On approximation of integrable functions by modified Bernstein polynomials. **89a:41033**
Stancu, D. D. On a class of multivariate linear positive approximating operators. (Romanian summary) **89a:41034**
Videnskiĭ, V. S. An analogue of a theorem of G. Freud on approximation by linear positive operators. (Russian) (*see* **89f:00013**)
— (*with* Pendina, T. P.) Approximation of smooth functions by optimal linear positive operators of finite rank. (Russian) (*see* **89f:00013**)
— Superposition of linear positive operators. (Russian) **89e:41030**
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Volkov, Yu. I. Approximation properties of multidimensional positive linear operators of type B. (Russian) **89e:41031**
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Watanabe, Hisako Korovkin-type theorems for a countably sublinear functional. **89e:41032**
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Zhou, Xin Long The asymptotic constants for a class of positive linear operators. (Chinese. English summary) **89d:41044**

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Anastassiou, George A. On the degree of weak convergence of a sequence of finite measures to the unit measure under convexity. **89g:28007**
Coman, G. The remainder of certain Shepard type interpolation formulas. (Romanian summary) **89j:41003**
Guo, Shun Sheng On the rate of convergence of the Durrmeyer operator for functions of bounded variation. **89h:41041**
Kasana, Harvir S. (*with* Agrawal, Purshottam Narain) On sharp estimates and linear combinations of modified Bernstein polynomials. **89j:41024**
Pendina, T. P. Approximation of differentiable functions by Bernstein modifications of some positive operators. (Russian) **89h:41046**
Singh, Suresh Prasad (*with* Tiwari, M. K.) Quantitative estimates on the integral Szász operators in the different normed spaces. **89f:41026**
Tiwari, M. K. *see* **Singh, Suresh Prasad, 89f:41026**

41A40 Saturation

Chen, Wen Zhong A pointwise "o" saturation theorem. **89m:41017**
Heilmann, Margareta L_p-saturation of some modified Bernstein operators. **89h:41049**
Tomić, Miloš Sur le problème de saturation des intégrales singulières dans un espace de fonctions. [The saturation problem for singular integrals in a function space] **89k:41030**
Zhou, Xin Long Saturation for some Hermite-Fejér interpolation polynomials. (Chinese) **89b:41030**

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Gaforov, A. The saturation class and saturation order of a linear method for the summation of Fourier series. (Russian. Tajiki summary) **89d:42012**
Gavrilyuk, V. T. On the approximate characterization of functions of the classes X_0^ψ. (Russian) **89h:42014**
Guo, Shun Sheng Generalized convexity and pointwise saturation. (Chinese) **89j:41037**
Musielak, Helena Jackson type inequalities for averaged moduli of smoothness. **89a:42002**
Pilauri, N. Sh. Saturation classes for Cesàro methods for double trigonometric Fourier series. (Russian. English and Georgian summaries) **89e:42006**
Zhou, Xin Long The L_p-saturation class of Meyer-König and Zeller operators. (Chinese) **89b:41029**

41A44 Best constants

Ganzburg, M. I. Exact constants of the best polynomial approximation on an $(m-1)$-dimensional sphere. (Russian) **89h:41050**
Sendov, Blagovest Kh. On the theorem and constants of H. Whitney. **89b:41031**
Wang, Jun Jie Upper bound estimation of the constant of best approximation. (Chinese. English summary) **89h:41051**

Items with secondary classifications in 41A44

Babenko, A. G. A Jackson inequality in the space L^2. (Russian) **89f:41020**

Burkholder, Donald L. A proof of Pełczyński's conjecture for the Haar system. **89j:46026**

Ganzburg, M. I. Exact constants of the best harmonic approximation of a function of several variables. **89d:41040**

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Smarzewski, Ryszard On best approximation in L_p spaces. **89a:41038**

Waldvogel, J. Zero-free disks in families of analytic functions. **89g:30012**

Zhou, Xin Long The asymptotic constants for a class of positive linear operators. (Chinese. English summary) **89d:41044**

41A45 Approximation by arbitrary linear expressions

Kocić, Ljubiša M. (*with* Lacković, I. B.) Approximation in discrete cones of p-convexity. **89c:41023**

Lacković, I. B. *see* **Kocić, Ljubiša M., 89c:41023**

Pinkus, A. Continuous selections for the metric projection on C_1. **89a:41035**

Items with secondary classifications in 41A45

Kovtunets, V. V. Differential properties of the operator of best approximation of complex-valued functions. II. (Russian) **89c:41024**

Sukharev, A. G. On the existence of optimal affine methods for approximating linear functionals. **89b:65150**

41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

Babenko, V. F. Approximation of classes of functions defined by means of the modulus of continuity. **89h:41052**

Buslaev, A. P. Widths of random vectors and their applications in approximation theory. **89g:41015**

Galeev, È. M. Kolmogorov widths of classes $\widetilde{\mathring{W}}{}_p^\alpha$ and $\widetilde{H}_p^\alpha$ of periodic functions of several variables in the space $\widetilde{L}_q$. (Russian) (*see* **89j:00036**)

Kudryavtsev, S. N. On approximations of functional compacta by piecewise polynomial surfaces. **89d:41045**

Kushpel′, A. K. Widths of classes of smooth functions in the space L_q. (Russian) **89e:41033**

Novikov, S. I. (*with* Shevaldin, V. T.) Lower bound for the even width of a class of periodic functions that is defined by a differential operator and a modulus of continuity. (Russian) **89e:41034**

Romanyuk, A. S. Inequalities for L_p-norms of (ψ, β)-derivatives and Kolmogorov widths of classes $L^{\psi}_{\beta,p}$ of functions of several variables. (Russian) **89h:41053**

Shevaldin, V. T. *see* **Novikov, S. I., 89e:41034**

Temlyakov, V. N. Estimates for the best bilinear approximations of periodic functions. (Russian) **89k:41031**

Items with secondary classifications in 41A46

Babenko, V. F. Approximations, widths and optimal quadrature formulae for classes of periodic functions with rearrangement invariant sets of derivatives. (Russian summary) **89e:41020**

Cobos, Fernando Entropy and Lorentz-Marcinkiewicz operator ideals. **89c:47053**

Dunham, Charles B. Chebyshev approximation with the local Haar condition. II. **89g:41016**

Edmunds, D. E. (*with* Evans, W. D.; Harris, D. J.) Approximation numbers of certain Volterra integral operators. **89k:47078**

— (*with* Triebel, Hans) Entropy numbers and approximation numbers in function spaces. **89m:46064**

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Fang, Gen Sun Some extremal problems on W^rH^ω. (Chinese. English summary) **89e:41044**

— PF density, Chakhkiev's condition and some related extreme value problems. (Chinese) (Not in MR)

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Galeev, È. M. Orders of orthoprojection widths of classes of periodic functions of one and several variables. **89g:42004**

— Projection widths of some finite-dimensional sets. **89h:41061**

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Magaril-Il′yaev, G. G. Trigonometric widths of Sobolev classes of functions on $\mathbf{R}^n$. (Russian) **89i:46038**

Martins, Jorge Antonio Sanpaio Entropy numbers of diagonal operators on Besov sequence spaces. **89d:47051**

Triebel, Hans *see* **Edmunds, D. E., 89m:46064**

Yomdin, Y. Approximational complexity of functions and entropy. **89m:58022b**

— Complexity of functions and entropy. **89m:58022a**

41A50 Best approximation, including Chebyshev systems

Abakumov, Yu. G. Some properties of Chebyshev systems connected with continuability. (Russian) (*see* **89c:00006**)

Anderson, James Milne (*with* Clunie, J. G.; Rosenblum, M.; Rovnyak, J.) Some problems of best approximation with constraints. **89j:41038**

Babaev, M.-B. A. Estimates and methods for determining the exact value of the best approximation of functions of several variables by superpositions of functions of a smaller number of variables [Reviewed in RZhMat 1978:3 B88]. (Russian) (*see* **89f:30003**)

Babenko, V. F. (*with* Kofanov, V. A.) Sign-constant polynomials that deviate least from zero in the spaces $L_{q,\Omega}$. (Russian) (*see* **89j:00036**)

Clunie, J. G. *see* **Anderson, James Milne; et al., 89j:41038**

Didkovskaya, N. V. Some nonlinear problems of the best approximation of functions. (Russian) (*see* **89j:00036**)

Ditzian, Z. (*with* Lubinsky, D. S.; Nevai, P.; Totik, V.) Polynomial approximation with exponential weights. **89b:41032**

Domrachev, V. I. Some Chebyshev systems. (Russian) (*see* **89c:00006**)

Dunham, Charles B. Chebyshev approximation with the local Haar condition. II. **89g:41016**

— Discretization with interpolating approximation. (Russian summary) **89f:41030**

— Dependence of alternants on functions. **89i:41028**

Egger, A. (*with* Huotari, R.) The Pólya algorithm on convex sets. **89m:41018**

Elumalai, S. Semicontinuity properties of the strong best approximation operator. **89e:41035**

Guarini, Marcello W. *see* **Palusinski, Olgierd A.; et al.,** (Not in MR)

Haussmann, Werner (*with* Zeller, K.) H-sets and best uniform approximation by solutions of elliptic differential equations. **89k:41032**

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Ivanov, M. L. The structure of non-Chebyshev systems of functions. (Russian) (*see* **89j:00036**)

Jahn, Johannes (*with* Krabs, W.) Applications of multicriteria optimization in approximation theory. (*see* **89f:90171**)

Kálovics, Ferenc An algorithm for the best Chebyshev approximations. **89b:41033**

Khvostov, A. P. Representation of best approximations of polynomials of lower degrees in terms of their coefficients. (Russian) **89h:41054**

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Korobkova, M. B. On a problem of the existence of a basis of a Chebyshev system. (Russian (*see* **89f:00013**)

Koshcheev, V. A. Compact sets that admit a system of vector functions with a given approximation property. (Russian) **89k:41033**

Kovtunets, V. V. Differential properties of the operator of best approximation of complex-valued functions. II. (Russian) **89c:41024**

Krabs, W. *see* **Jahn, Johannes, (89f:90171)**

Kroó, András (*with* Sommer, Manfred; Strauss, Hans) On strong uniqueness in one-sided L^1-approximation of differentiable functions. **89m:41019**

Levashov, V. A. The best approximation by a factorizing seminorm. (Russian) **89d:41046**

Li, Chong *see* **Xu, Shi Ying, 89b:41034**

Li, Wu Weak Chebyshev spaces on locally ordered topology space and the related continuous metric selections. **89a:41036**

— Characterization for continuous selection and its applications in multivariable approximation. **89m:41020**

Liu, Rui Zhi Comment: "Monotone and comonotone approximation" [Proc. Amer. Math. Soc. **42** (1974), 390–394; MR **49** #952] by E. Passow and L. Raymon. (Chinese. English summary) **89m:41021**

Lubinsky, D. S. *see* **Ditzian, Z.; et al., 89b:41032**

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41A52 Uniqueness of best approximation

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41A55 Approximate quadratures

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41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

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41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

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Günttner, R. On asymptotics for the uniform norms of the Lagrange interpolation polynomials corresponding to extended Chebyshev nodes. **89e:41005**

Handy, Carlos R. A solution to the one-dimensional missing moment problem. **89c:44006**

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Kilbas, A. A. Asymptotic expansions of fractional integrals and of the solutions of the Euler-Poisson-Darboux equation. **89k:35048**

King, Andrew Charles Periodic approximations to an elliptical function. **89d:33003**

Knopfmacher, Arnold (*with* Lubinsky, D. S.) Asymptotic behaviour of the ratio of Christoffel functions for weights W^2 and W^2g. **89b:41010**

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Meinardus, G. An approximation theoretic alternative to asymptotic expansions for special functions. **89a:41020**

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— (*with* Ritus, V. I.) Asymptotic representations of some functions and integrals connected with the Airy function. (Russian) (*see* **89d:81002**)

Nuttall, J. *see* **Luo, L. S., 89c:41007**

Omey, E. Asymptotic properties of convolution products of functions. **89j:60028**

Pendina, T. P. Approximation of differentiable functions by Bernstein modifications of some positive operators. (Russian) **89h:41046**

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Ritus, V. I. *see* **Nikishov, A. I., 89h:33018** *and* **(89d:81002)**

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Turbiner, A. V. (*with* Ushveridze, A. G.) Anharmonic oscillator: constructing the strong coupling expansions. **89h:81028**

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Van Assche, Walter Asymptotic properties of orthogonal polynomials from their recurrence formula. II. **89h:33017**

Voznyuk, A. V. On a general approach to obtaining asymptotic expansions of Bessel functions, Legendre polynomials, functions of a parabolic cylinder, and Hermite polynomials for large values of the argument. (Russian) **89h:33011**

Wong, Roderick *see* **Shivakumar, P. N., 89j:33008** *and* **Frenzen, C. L., 89k:33012**

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Ben-Artzi, Asher (*with* Ron, Amos) Translates of exponential box splines and their related spaces. **89m:41008**

de Boor, Carl (*with* Höllig, Klaus) Minimal support for bivariate splines. **89h:41022**

— (*with* Höllig, Klaus; Riemenschneider, Sherman) Some qualitative properties of bivariate Euler-Frobenius polynomials. **89d:41019**

— (*with* Höllig, Klaus) Approximation power of smooth bivariate pp functions. **89h:41023**

Chui, C. K. (*with* Lai, Mingjun) On multivariate vertex splines and applications. **89h:41024**

— (*with* He, Tian Xiao; Wang, Ren Hong) The C^2 quartic spline space on a four-directional mesh. **89i:41015**

Clark, Gordon M. *see* **Taaffe, Michael R., 89a:60232**

Cuyt, Annie A. M. (*with* Verdonk, Brigitte M.) Multivariate reciprocal differences for branched Thiele continued fraction expansions. **89f:41023**

Dyn, Nira (*with* Wong, Wing Hung) On the characterization of nonnegative volume-matching surface splines. **89a:41010**

Farin, Gerald *see* **Worsey, A. J., 89f:41007**

Franke, Richard (*with* Schumaker, L. L.) A bibliography of multivariate approximation. **89a:41001**

Freeden, Willi Interpolation by multidimensional periodic splines. **89i:41007**

Ganzburg, M. I. Exact constants of the best polynomial approximation on an $(m-1)$-dimensional sphere. (Russian) **89h:41050**

Gao, Jun Bin Multivariate quasi-Newton interpolation. (Chinese. English summary) **89k:41004**

Gasca, M. (*with* Lebrón, E.) On Aitken-Neville formulae for multivariate interpolation. **89b:41005**

Grandine, Thomas A. The stable evaluation of multivariate simplex splines. **89a:65018**

Guessab, Allal Sur les formules de quadrature numérique dans $\mathbf{R}^n$ avec certains noeuds ayant une composante connue. (English summary) [Numerical quadrature formulas in $\mathbf{R}^n$ with certain knots having a given component] **89a:65038**

Gutknecht, Martin Attenuation factors in multivariate Fourier analysis. **89d:42022**

Hamann, Uwe (*with* Wildenhain, Günther) Approximation by solutions of elliptic boundary value problems in various function spaces. **89i:35050**

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Jackson, I. R. H. Convergence properties of radial basis functions. **89k:41005**

Jahn, Johannes (*with* Krabs, W.) Applications of multicriteria optimization in approximation theory. (*see* **89f:90171**)

Jetter, Kurt A short survey on cardinal interpolation by box splines. **89d:41025**

— (*with* Riemenschneider, Sherman) Cardinal interpolation, submodules and the 4-direction mesh. **89d:41003**

Jia, Rong Qing B-net representation of multivariate splines. **89i:41017**

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Liang, Xue Zhang On bivariate quartic spline interpolation. (Chinese. English summary) **89f:41016**

Lietuvietis, O. I. A method for the approximation of contours that are piecewise smooth in the sense of Lyapunov. (Russian) (*see* **89f:00005**)

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le Méhauté, Alain J. Y. Unisolvent interpolation in $\mathbf{R}^n$ and the simplicial polynomial finite element method. **89d:41004**

Miller, John J. (*with* Wegman, E. J.) Vector function estimation using splines. **89a:41012**

Minarchenko, A. N. Exact inequalities of Jackson type for functions of several variables. (Russian) **89i:41020**

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Naĭko, D. A. Improvement of the convergence of multidimensional operators of type B. (Russian) **89h:41045**

Ogawa, Shirô (*with* Kitahara, Kazuaki) An extension of Müntz's theorems in multivariables. **89g:41006**

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Pinkus, A. Continuous selections for the metric projection on C_1. **89a:41035**

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Powell, M. J. D. Radial basis functions for multivariable interpolation: a review. **89b:41006**

— Radial basis function approximations to polynomials. **89j:41025**

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Riemenschneider, Sherman (*with* Scherer, Karl) Cardinal Hermite interpolation with box splines. **89d:41006**

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Stancu, D. D. On a class of multivariate linear positive approximating operators. (Romanian summary) **89a:41034**

Taaffe, Michael R. (*with* Clark, Gordon M.) Approximating nonstationary two-priority nonpreemptive queueing systems. **89a:60232**

Temlyakov, V. N. Estimates for best bilinear approximations of functions of two variables and some of their applications. **89a:41025**

Traian, Muresan Bernstein polynomials for n-dimensional continuous functions. (Romanian. French summary) (Not in MR)

Trivedi, G. S. Approximation of a function by its Laplace expansion. (Hindi. English summary) **89k:41027**

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Worsey, A. J. (*with* Farin, Gerald) An *n*-dimensional Clough-Tocher interpolant. **89f:41007**

Ye, Mao Dong Interpolation to half-integral nodes by splines in the class $S_2^1(\Delta_{mn}^{(2)})$. (Chinese. English summary) **89m:41011**

41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

Abakumov, Yu. G. (*with* Banin, V. G.) The Voronovskaya theorem from a general point of view. (Russian) **89f:41038**

Angelos, J. R. (*with* Schmidt, Darrell) The prevalence of strong uniqueness in L^1. **89j:41048**

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Berdyshev, V. I. Geometric characteristics of spaces, and the stability of the best approximation. (Russian) (*see* **89j:00035**)

Bosznay, Ádam P. Solving the farthest point problem in finite-codimensional subspace of $C(\Omega)$. **89d:41050**

— A remark concerning strong uniqueness of approximation. **89j:41049**

Brown, A. L. Chebyhsev sets and the shapes of convex bodies. **89a:41040**

Chakalov, Vladimir L. Extremal elements of normed spaces and some related extremal problems. I. (Russian) **89b:41040**

— Extremal elements of normed spaces and some related extremal problems. II. (Russian) **89i:41032**

Chalmers, B. L. Absolute projection constant of the linear functions in a Lebesgue space. **89g:41023**

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Chen, Zhi Qiang An equivalent condition of continuous metric selection. **89k:41038**

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Drozhzhin, I. A. Supremal generators of finite order. (Russian) (*see* **89c:00006**)

Fabiś, Florian Approximation in generalized Orlicz spaces. **89k:41039**

Fang, Gen Sun Some extremal problems on W^rH^w. (Chinese. English summary) **89e:41044**

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— ε-approximations in normed product spaces. (Spanish. English summary) **89j:41050**

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Gal, S. G. Dense linear subspaces in $L^p(E)$. (Italian summary) **89j:41052**

Galeev, È. M. Projection widths of some finite-dimensional sets. **89h:41061**

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Khalil, R. Best approximation in metric spaces. **89i:41033**

Kolpakov, V. I. Regularizers of synchronous reconstruction of a function and its derivatives. (Russian) (*see* **89j:00036**)

Konyagin, S. V. Sets of existence of elements of best approximation. (Russian) (*see* **89j:00036**)

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Loi, N. H. On the estimate for the second derivative of the difference of partial sums arising by selfadjoint Sturm-Liouville operators. **89b:41041**

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Maligranda, Lech Interpolation spaces in the theory of approximation. **89a:41042**

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Musielak, Julian Some applications of generalized Orlicz spaces in approximation theory and Fourier series. **89a:41043**

Narang, T. D. On best coapproximation. **89a:41044**

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Papini, Pier Luigi Completeness and approximation. (Serbo-Croatian summary) **89e:41046**

Rao, Geetha S. (*with* Chandrasekaran, K. R.) Characterizations of elements of best coapproximation in normed linear spaces. **89e:41047**

Raşa, I. Sets on which concave functions are affine and Korovkin closures. **89a:41045**

Sahab, Salem M. A. (*with* Kahn, M. S.) Some results on best approximation. (Serbo-Croatian summary) **89f:41041**

Sapronov, Yu. I. Letter to the editor: "Approximation of odd mappings" [Mat. Zametki 38 (1985), no. 3, 417–421; MR 86m:41038] by V. V. Ivanov. **89c:41030**

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Shmatkov, V. A. Uniqueness of extremal continuations of positive functionals in the space $C(T)$. (Russian) (*see* **89c:00006**)

Tsar′kov, I. G. Compact and weakly compact Chebyshev sets in linear normed spaces. (No in MR)

Ubhaya, Vasant A. Lipschitzian selections in approximation from nonconvex sets of bounded functions. **89m:41026**

Wang, Yu Wen (*with* Chen, Shu Tao) Best approximation operators in Orlicz spaces. (Chinese. English summary) **89c:41031**

Watson, G. A. Convex L^p approximation. **89j:41053**

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Babenko, V. F. Approximation of classes of functions defined by means of the modulus of continuity. **89h:41052**

Balaganskiĭ, V. S. On the connection between approximation and geometric properties of sets. (Russian) **89g:46023**

Baronti, Marco Norm-one projections onto subspaces of l^∞. **89i:46016**

Baszenski, G. (*with* Schumaker, L. L.) Tensor products of abstract smoothing splines. **89h:41021**

Beckhoff, Ferdinand ★ Korovkin-Theorie in Algebren. (German) [Korovkin theory in algebras] **89b:46067**

Beer, Gerald Support and distance functionals for convex sets. **89m:46031**

Belov, Yu. A. (*with* Kas′yanyuk, V. S.) On the set of values of a linear functional subject to constraints involving *m* other linear functionals. (Russian) **89e:49009**

Benítez, Carlos (*with* Fernández García-Hierro, Manuel) Functional characterization of best and good approximation in normed product spaces. (Italian summary) **89i:41024**

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Boult, T. (*with* Sikorski, K.) Can we approximate zeros of functions with nonzero topological degree? **89j:58011**

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Cartwright, Donald I. (*with* Kucharski, Krzysztof) Jackson's theorem for compact connected Lie groups. (*see* **89b:00009**)

Chernetskiĭ, V. I. Application of the Banach-Steinhaus theorem for proving the convergen of an interpolation method for the investigation of equations with a random parameter. (Russian) **89g:41001**

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Cho, Chong-Man Best approximation by certain compact operators on $L^p(\{-1,1\}^N)$. **89b:41028**

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Durier, R. Meilleure approximation en norme vectorielle et théorie de la localisation. (English summary) [Best approximation in a vectorial norm and localization theory] **89b:90206**

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Franchetti, C. A new geometric property of the unit ball of a normed space. (Italian. Englis summary) **89h:46023**

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Gol′dman, Mikhail Abramovich Splines in a Hilbert space in the case when the kernel of th smoothing operator is contained in the kernel of the interpolation operator. (Russian) **89e:41010**

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Kocić, Ljubiša M. (*with* Lacković, I. B.) Approximation in discrete cones of *p*-convexity. **89c:41023**

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— Characterization for continuous selection and its applications in multivariable approximation. **89m:41020**
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— On farthest point problem. **89b:46026**
Pantelidis, G. *see* **Hadjisavvas, N.; et al., 89g:46030**
Partington, J. R. *see* **Glover, Keith; et al., 89i:93067**
Pellón, Teresa *see* **Martínez-Maurica, J., 89c:46098**
Pinkus, A. (*with* Wajnryb, B.) Necessary conditions for uniqueness in L^1-approximation. **89g:41017**
Popov, V. Yu. Mean-square approximations of differentiable functions of several variables. (Russian) **89h:41056**
Precupanu, Anca-Maria (*with* Precupanu, Teodor) A characterization of antiproximinal sets. **89d:90237**
Precupanu, Teodor *see* **Precupanu, Anca-Maria, 89d:90237**
Prolla, João B. Approximation by positive elements of subalgebras of real-valued functions. **89e:41025**
— (*with* Chiacchio, Ary O.; Roversi, Maria Sueli M.) Chebyshev centers in spaces of continuous functions. **89f:46085**
Raşa, I. Uniqueness closures and Korovkin closures of some function spaces. (Romanian summary) **89g:46050**
Rosenblum, M. *see* **Anderson, James Milne; et al., 89j:41038**
Roversi, Maria Sueli M. *see* **Prolla, João B.; et al., 89f:46085**
Rovnyak, J. *see* **Anderson, James Milne; et al., 89j:41038**
Rüschendorf, L. On symmetric functions of k variables. **89i:41031**
Schumaker, L. L. *see* **Baszenski, G., 89h:41021**
Sherstneva, L. A. On the properties of best Lorentz approximations, and certain embedding theorems. (Russian) **89d:42007**
Sikorski, K. *see* **Boult, T., 89j:58011**
Singh, Sankatha Prasad On Ky Fan's theorem and its applications (survey). **89h:47092**
Smarzewski, Ryszard On best approximation in L_p spaces. **89a:41038**
Smĭrnov, G. S. A criterion for the polynomial of best approximation of a continuous vector-valued mapping. (Ukrainian. Russian summary) **89d:41016**
— *see also* **Panasovich, V. O., 89h:41055**
Sommer, Manfred Properties of unicity subspaces in L_1-approximation. **89d:41047**
Srinivasan, Sundarajan (*with* Viswanath, K.) Coproximinality and biproximinality in Banach spaces. **89b:46028**
Sudolski, Jan (*with* Wójcik, Adam Piotr) Another generalization of strong unicity. **89f:41032**
Sukharev, A. G. On the existence of optimal affine methods for approximating linear functionals. **89b:65150**
Temlyakov, V. N. Approximation by elements of a finite-dimensional subspace of functions in various Sobolev or Nikol′skiĭ classes. **89j:41026**
Tikhomirov, V. M. Convex analysis. (Russian) (*see* **89f:41001**)
Tyrygin, I. Ya. Uniform approximation of continuous operators on a compact space. (Russian) **89e:41028**
Vinokurov, V. A. Regularizability of functions. **89g:54047**
Viswanath, K. *see* **Srinivasan, Sundarajan, 89b:46028**
Wajnryb, B. *see* **Pinkus, A., 89g:41017**
Wasilkowski, G. W. (*with* Woźniakowski, Henryk) On optimal algorithms in an asymptotic model with Gaussian measure. **89h:65090**
Wingren, Peter Lipschitz spaces and interpolating polynomials on subsets of Euclidean space. **89m:41003**
Wójcik, Adam Piotr *see* **Sudolski, Jan, 89f:41032**
Woźniakowski, Henryk *see* **Wasilkowski, G. W., 89h:65090**
Xie, Ting Fan On simultaneous approximation of functions and its derivatives by Fourier sums. **89h:41042**
Zykin, S. V. Mixed approximation. (Russian) **89h:65096**

41A80 Remainders in approximation formulas

Items with secondary classifications in 41A80

Coman, G. The remainder of certain Shepard type interpolation formulas. (Romanian summary) **89j:41003**

41A99 Miscellaneous topics

Chan Tkhi Le *see* **Magaril-Il′yaev, G. G., 89a:41046**
Magaril-Il′yaev, G. G. (*with* Chan Tkhi Le) On the problem of the optimal recovery of functionals. (Russian) **89a:41046**
Mycielski, Jan A learning theorem for linear operators. **89f:41042**
Yan, Chang Ling On the integral representation of Bézier functions. (Chinese. English summary) **89e:41048**

Items with secondary classifications in 41A99

Gashkov, S. B. Complexity of the approximate realization of functions, satisfying the Lipschitz condition, by schemes in continuous bases. **89h:65028**
Tarasenko, N. V. Two approaches to difference approximations of optimal control problems. (Russian) (*see* **89j:00018**)

42–XX Fourier analysis

42–01 Elementary exposition; textbooks

Champeney, D. C. ★ A handbook of Fourier theorems. **89e:42001**
Körner, T. W. ★ Fourier analysis. **89f:42001**
Olevskiĭ, A. M. Modifications of functions, and Fourier series. (Russian) (*see* **89j:00035**)

Items with secondary classifications in 42–01

Andrade, Doherty The Carleson-Hunt theorem. (Portuguese) (Not in MR)
Bourdaud, Gérard ★ Analyse fonctionnelle dans l'espace euclidien. (French) [Functional analysis in Euclidean space] **89a:46001**
Brown, James Ward *see* **Churchill, Ruel V., 89h:35001**
Churchill, Ruel V. (*with* Brown, James Ward) ★ Fourier series and boundary value problems. **89h:35001**
(Fourier, Jean Baptiste Joseph) *see* **Churchill, Ruel V., 89h:35001**
Il′in, V. A. (*with* Sadovnichiĭ, V. A.[1]; Sendov, Blagovest Kh.) ★ Математический анализ. 2. (Russian) [Mathematical analysis. 2] **89d:26001**
Iório, Rafael José, Jr. (*with* Iório, Valéria de Magalhães) ★ Equações diferenciais parciais: uma introdução. (Portuguese) [An introduction to partial differential equations] **89k:35001**
Iório, Valéria de Magalhães *see* **Iório, Rafael José, Jr., 89k:35001**
Sadovnichiĭ, V. A.[1] *see* **Il′in, V. A.; et al., 89d:26001**
Sendov, Blagovest Kh. *see* **Il′in, V. A.; et al., 89d:26001**

42–02 Advanced exposition (research surveys, monographs, etc.)

Bourgain, J. Geometry of Banach spaces and harmonic analysis. **89d:42001**
Fefferman, Robert Multiparameter Fourier analysis. **89a:42001**
Semmes, Stephen W. Nonlinear Fourier analysis. **89i:42001**
Zygmund, A. ★ Trigonometric series. Vol. I, II. **89c:42001**

Items with secondary classifications in 42–02

McIntosh, Alan G. R. (*with* Qian, Tao) Fourier theory on Lipschitz curves. **89c:42015**
Qian, Tao *see* **McIntosh, Alan G. R., 89c:42015**

42–03 Historical (must also be assigned at least one classification number from Section 01)

Titchmarsh, E. C. ★ Introduction to the theory of Fourier integrals. **89c:42002**
Ul′yanov, P. L. Metric function theory. (Russian) **89i:42002**

42–06 Proceedings, conferences, etc.

Items with secondary classifications in 42–06

(Cowling, Michael) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009** *and* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**
(Meaney, C.) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009** *and* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**
(Moran, William) *see* **Conference: Harmonic analysis and operator algebras, 89b:00009** *and* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**

Items listed otherwise than by author

Canberra ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**
— ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**
Conference:
  Harmonic analysis and operator algebras ★ Miniconference on harmonic analysis and operator algebras. **89b:00009**
Miniconference:
  Harmonic Analysis and Operator Algebras ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**

42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

Babenko, A. G. An extremal problem for nonnegative trigonometric polynomials. (Russian) (*see* **89j:00036**)
Beriša, Muharem Č. (*with* Kastrati, R.) Moduli of smoothness and coefficients of double lacunary trigonometric series. (Russian. English and Serbo-Croatian summaries) **89h:42001**
Brown, Gavin (*with* Wilson, David C.) Trigonometric sums and polynomial zeros. **89h:42002**
Brown, Johnny E. (*with* Goldstein, Myron; McDonald, John N.) A sequence of extremal problems for trigonometric polynomials. **89f:42002**
Coifman, Ronald R. (*with* Murray, Margaret A. M.) Uniform analyticity of orthogonal projections. **89j:42001**
Erdélyi, T. Markov type estimates for derivatives of polynomials of special type. **89m:42001**
Farahmand, K. On the number of real zeros of a random trigonometric polynomial: coefficients with nonzero infinite mean. **89h:42003**
Fil′shtinskiĭ, V. A. *see* **Litvinets, P. D., 89g:42001**
Goldstein, Myron *see* **Brown, Johnny E.; et al., 89f:42002**
Kastrati, R. *see* **Beriša, Muharem Č., 89h:42001**
Litvinets, P. D. (*with* Fil′shtinskiĭ, V. A.) λ-transformation of trigonometric polynomials and entire functions. (Russian) **89g:42001**
McDonald, John N. *see* **Brown, Johnny E.; et al., 89f:42002**
Murray, Margaret A. M. *see* **Coifman, Ronald R., 89j:42001**
Musielak, Helena Jackson type inequalities for averaged moduli of smoothness. **89a:42002**
Privalov, A. A. The growth of the powers of polynomials, and the approximation of trigonometric projectors. (Russian) **89a:42003**
Runovskiĭ, V. K. On the real zeros of an even trigonometric polynomial. **89e:42002**
Shadrin, A. Yu. Theorems of Jackson type for the monotone approximation of functions by trigonometric polynomials. (Russian) **89d:42002**
Tudor, Gheorghe M. Sur une inégalité de C. Hyltén-Cavallius. (Romanian summary) [On an inequality of C. Hyltén-Cavallius] **89d:42003**
Tyrygin, I. Ya. Inequalities of P. Turán type in mixed integral metrics. (Russian. English summary) **89k:42001**
— Inequalities of Turán type in some integral metrics. **89g:42002**
Widom, Harold On an inequality of Osgood, Phillips and Sarnak. **89a:42004**
Wilson, David C. *see* **Brown, Gavin, 89h:42002**

Items with secondary classifications in 42A05

Aminov, Yu. A. Closed curves that are trigonometric polynomials in the arc length. (Russian) **89d:53002**
Babenko, V. F. Comparison theorems and inequalities of Bernstein type. (Russian) **89e:41016**
Baggett, L. W. On functions that are trivial cocycles for a set of irrationals. **89h:28022a**
— (*with* Merrill, Kathy D.) Equivalence of cocycles under an irrational rotation. **89h:28022b**
Ben-Tal, A. (*with* Borwein, J. M.; Teboulle, M.) A dual approach to multidimensional L_p spectral estimation problems. **89i:49008**
Borwein, J. M. *see* **Ben-Tal, A.; et al., 89i:49008**
Merrill, Kathy D. *see* **Baggett, L. W., 89h:28022b**
Minarchenko, A. N. Exact inequalities of Jackson type for functions of several variables. (Russian) **89i:41020**
Szőkefalvi-Nagy, Béla Bohr inequality and an operator equation. **89a:47024**
Teboulle, M. *see* **Ben-Tal, A.; et al., 89i:49008**
Tyrygin, I. Ya. Inequalities of P. Turán type in mixed integral metrics. (Russian) **89j:11088**
Walker, Peter L. On the zeros of certain trigonometric integrals. **89h:30009**

42A10 Trigonometric approximation

Abilov, V. A. (*with* Pkhasy, S.) The evaluation of the Lebesque function of Fourier-Jacobi double series. (Not in MR)
Akhmedov, V. V. Order of approximation by Voronoĭ means of Fourier-Hermite series. (Russian) (*see* **89j:00036**)
Al-Budaiwi, Aisha *see* **Mazhar, S. M., 89a:42007**
Babenko, A. G. A Jackson inequality for mean-square approximations of periodic functions by trigonometric polynomials on a uniform net. **89h:42004**
Babenko, V. F. Approximation of convolution classes. (Russian) **89g:42003**
Bausov, L. I. Approximation by trigonometric polynomials of functions of several variables with bounded difference. (Russian) **89d:42004**
Bekzatov, B. The rate of convergence of linear means of a conjugate series. (Russian. Kazakh summary) **89i:42003**
Belinskiĭ, È. S. Trigonometric diameters of some classes of smooth functions of several variables. (Russian) (*see* **89j:00036**)
Chandra, Prem On the degree of approximation of continuous functions. **89d:42005**
— Functions belonging to $\mathrm{Lip}\,\alpha$ and $\mathrm{Lip}(\alpha, p)$ spaces and their approximations. **89a:42005**
De-Michele, Leonede (*with* Roux, Delfina) Some results about smoothing methods of Fourier series. **89e:42003**
Dzhamalov, M. Sh. On a theorem of E. V. Voronovskaya. (Russian) (*see* **89f:00013**)
Esmaganbetov, M. G. *see* **Shayakhmetova, B. K.; et al., 89i:42009**
Fabiś, Florian Approximation in Orlicz space. **89a:42006**
Feschiev, I. (*with* Khemeamin, M.) Upper bounds on the best approximations by trigonometric polynomials on the classes $\widetilde{W^rH^\omega}$ in the space L. (Russian. English and Bulgarian summaries) **89i:42004**
Fomin, G. A. Estimates for uniform and in the mean approximation of functions by partial sums of their orthogonal expansions in some orthonormal systems. (Russian) (*see* **89j:00035**)
Galeev, È. M. Orders of orthoprojection widths of classes of periodic functions of one and several variables. **89g:42004**
Gupta, Km. Vandana *see* **Pathak, Ashutosh, 89f:42003**
Gupta, Sunita (*with* Pandey, G. S.) On the degree of approximation to a function by the Nörlund means of its Fourier series. **89g:42005**
Khemeamin, M. *see* **Feschiev, I., 89i:42004**
Koch, P. E. Jackson-type theorems for trigonometric polynomials and splines. **89e:42004**
Koval′chuk, I. R. *see* **Kushpel′, A. K., 89g:42006**
Koval′skaya, I. B. Approximation of periodic functions by analogues of Zygmund sums in a metric of the space L_p. (Russian) **89i:42005**
— Estimates for the upper bounds of deviations in a metric of the space L_p. (Russian) **89h:42005**
Kulik, A. N. An estimate for the remainder term of the deviation of Fourier sums on classes of continuously differentiable functions. (Russian) **89e:42005**
Kushpel′, A. K. The rate of convergence of interpolation SK-splines on convolution classes. (Russian) **89i:42006**
— (*with* Koval′chuk, I. R.) An estimate for the rate of convergence of the derivative of an interpolation polynomial on classes of differentiable functions. **89g:42006**
— *see also* **Stepanets, A. I., 89a:42008**
Ligun, A. A. Exact inequalities of Jackson type for periodic functions in the space L_2. **89h:42006**
Mazhar, S. M. (*with* Al-Budaiwi, Aisha) A note on a theorem of Ermakov. **89a:42007**
Nurmanov, O. Strong approximation by Fourier-Gegenbauer series. (Russian) (*see* **89b:41001**)
Pachulia, N. L. Strong summability of Fourier series. (Russian) **89g:42007**
— *see also* **Stepanets, A. I., 89i:42010**
Pandey, G. S. *see* **Gupta, Sunita, 89g:42005**
Pathak, Ashutosh (*with* Gupta, Km. Vandana) Approximation of a function by the Nörlund means of derived Fourier series. **89f:42003**
Pilauri, N. Sh. Saturation classes for Cesàro methods for double trigonometric Fourier series. (Russian. English and Georgian summaries) **89e:42006**
Pkhasy, S. *see* **Abilov, V. A.**, (Not in MR)
Pych-Taberska, Paulina On fractional differences, moduli of smoothness and best trigonometric approximation. **89d:42006**
Rangachari, M. S. (*with* Settu, S. A.) Approximation of a function by the $F(a, q)$ transform of its Fourier series. **89i:42007**
Romanyuk, A. S. Approximation of periodic functions of several variables in a metric of L_q (Russian) **89i:42008**
Roux, Delfina *see* **De-Michele, Leonede, 89e:42003**
Savić, Vladimir N. Asymptotic behaviour of the oscillation of the sequences of the linear transformations of the Fourier series. (Czech summary) **89j:42002**
Settu, S. A. *see* **Rangachari, M. S., 89i:42007**
Shao, Qi Man Strong approximations on lacunary trigonometric series with weights. **89j:42003**
Shayakhmetova, B. K. (*with* Smailov, E. S.; Esmaganbetov, M. G.) The space $L_{(p,q)}[0, 2\pi]^2$, $1 < p, q < +\infty$, and structural and constructive properties of functions. (Russian. Kazakh summary) **89i:42009**
Sherstneva, L. A. On the properties of best Lorentz approximations, and certain embedding theorems. (Russian) **89d:42007**
Smailov, E. S. *see* **Shayakhmetova, B. K.; et al., 89i:42009**
Stepanets, A. I. (*with* Zadereĭ, P. V.; Zadereĭ, N. N.) Simultaneous approximation of periodic functions of two variables and their $(\overline{\psi}, \overline{\beta})$-derivatives by Fourier sums. (Russian) (*see* **89b:41003**)
— (*with* Pachulia, N. L.) Rate of convergence of a group of deviations in the space L^{ψ}_{β}. (Russian) **89i:42010**
— (*with* Kushpel′, A. K.) Rate of convergence of Fourier series and best approximations in the space L_p. (Russian) **89a:42008**
— The mean-square rate of convergence of orthogonal series. (Russian) **89f:42004**
— Approximation by Fourier operators of functions given on the real axis. **89d:42008**
Sun, Xie Hua A note on approximation in the space CV_M^* by positive linear trigonometric polynomial operators. (Chinese. English summary) **89k:42002**
Taberski, Roman Contributions to fractional calculus and exponential approximation. **89b:42001**
Tīman, M. F. (*with* Tukhliev, K.) Approximation of functions by the arithmetic means of partial sums of a Fourier-Walsh series. (Russian. Tajiki summary) **89k:42003**
Tukhliev, K. *see* **Tīman, M. F., 89k:42003**
Vakarchuk, S. B. Exact values of quasidiameters of some classes of periodic functions of two variables. (Russian) **89k:42004**
Veĭsov, I. A. Approximation of functions by linear operators of Fourier-Jacobi convolution type. (Russian) (*see* **89b:41001**)
Walter, Gilbert G. Sampling bandlimited functions of polynomial growth. **89h:42007**
Zadereĭ, N. N. *see* **Stepanets, A. I.; et al.**, (**89b:41003**)
Zadereĭ, P. V. *see* **Stepanets, A. I.; et al.**, (**89b:41003**)

Items with secondary classifications in 42A10

Akhmedov, V. V. The order of strong approximation by Fourier-Chebyshev-Hermite sums. (Russian) (*see* **89b:41001**)
Babenko, V. F. Approximations, widths and optimal quadrature formulae for classes of periodic functions with rearrangement invariant sets of derivatives. (Russian summary) **89e:41020**
Baskakov, V. A. Comparison of orders of approximation of the classes $W^rH_{\omega p}$ by linear polynomial operators. (Russian) **89a:41027**
Belyaev, V. A. Approximation of functions of a complex variable by polynomials. (Russian) (*see* **89j:00035**)
Cartwright, Donald I. (*with* Kucharski, Krzysztof) Jackson's theorem for compact connected Lie groups. (*see* **89b:00009**)
Charron, R. J. Adapting rational approximants for Fourier series to data representation problems. (German summary) **89k:65015**
Fang, Gen Sun Some extremal problems on W^rH^ω. (Chinese. English summary) **89e:41044**
Genin, Yves On a duality relation in the theory of orthogonal polynomials and its application in signal processing. **89m:42019**
Ivanov, V. I. (*with* Pichugov, S. A.) Approximation of periodic functions in L_p by linear positive methods, and multiple moduli of continuity. (Russian) **89h:41048**

Knopfmacher, Arnold (*with* Lubinsky, D. S.) Analogues of Freud's conjecture for Erdős type weights and related polynomial approximation problems. **89d:41012**
Korneĭchuk, N. P. ★ Точные константы в теории приближения. (Russian) [Exact constants in approximation theory] **89d:41038**
Krasichkov-Ternovskiĭ, I. F. Absolute completeness of systems of exponents on an interval. **89b:41011**
Kucharski, Krzysztof *see* **Cartwright, Donald I.**, (**89b:00009**)
Lubinsky, D. S. *see* **Knopfmacher, Arnold**, **89d:41012**
Magaril-Il′yaev, G. G. Trigonometric widths of Sobolev classes of functions on $\mathbf{R}^n$. (Russian) **89i:46038**
Móricz, F. Strong approximation by rectangular partial sums of double orthogonal series. (Russian summary) **89a:42039**
ter Morsche, H. G. Attenuation factors and multivariate periodic spline interpolation. **89e:42011**
Nitka-Styczeń, Krystyna *see* **Styczeń, Krystyn**, **89h:49032**
Pichugov, S. A. *see* **Ivanov, V. I.**, **89h:41048**
Prestin, Jürgen Trigonometric interpolation in Hölder spaces. **89g:41013**
Rhoades, B. E. (*with* Shi, Xian Liang) Chebyshev summability of Fourier series. **89d:42014**
Ryabykh, V. G. (*with* Tokmakova, N. N.; Yablonskiĭ, A. Ya.) Approximation of random functions. (Russian) **89h:60055**
Shi, Xian Liang *see* **Rhoades, B. E.**, **89d:42014**
Styczeń, Krystyn (*with* Nitka-Styczeń, Krystyna) Optimal periodic control problem: a modified trigonometric approximation and quasi-stationarity conditions. **89h:49032**
Temlyakov, V. N. Estimates for the best bilinear approximations of periodic functions. (Russian) **89k:41031**
Tokmakova, N. N. *see* **Ryabykh, V. G.; et al.**, **89h:60055**
Xie, Ting Fan On simultaneous approximation of functions and its derivatives by Fourier sums. **89h:41042**
Yablonskiĭ, A. Ya. *see* **Ryabykh, V. G.; et al.**, **89h:60055**
Zhang, Yan^2 Convergence and asymptotic behavior of generalized Abel means on $H^p(T^n)$ $(0 < p \leq 1)$. (Chinese) (Not in MR)

42A15 Trigonometric interpolation

Benedetto, John J. A quantitative maximum entropy theorem for the real line. **89c:42003**
Delvos, F.-J. Convergence of interpolation by translation. **89h:42008**
Kazaryan, K. S. Weighted inequalities for families of operators generated by truncated Cesàro kernels. **89g:42008**
Kushpel′, A. K. On a family of extremal subspaces. (Russian) **89a:42009**
Selvaraj, C. R. *see* **Szabados, J.; et al.**, **89m:42002**
Szabados, J. (*with* Varma, A. K.; Selvaraj, C. R.) Error estimates of a general lacunary trigonometric interpolation on equidistant nodes. **89m:42002**
Varma, A. K. *see* **Szabados, J.; et al.**, **89m:42002**

Items with secondary classifications in 42A15

Butzer, Paul L. (*with* Splettstösser, W.; Stens, R. L.) The sampling theorem and linear prediction in signal analysis. **89b:94006**
Chebotarëv, A. M. The fast Fourier transform in a problem with multiple nodes. (Russian) **89b:65324**
Hermann, Thomas (*with* Kis, O.; Vértesi, P.) On certain rational interpolatory operators. **89h:41036**
Kis, O. *see* **Hermann, Thomas; et al.**, **89h:41036**
Kushpel′, A. K. The rate of convergence of interpolation SK-splines on convolution classes. (Russian) **89i:42006**
Palagallo, Judith A. (*with* Price, Thomas E.) Properties of projections obtained by averaging certain polynomial interpolants. **89c:30099**
Price, Thomas E. *see* **Palagallo, Judith A.**, **89c:30099**
Splettstösser, W. *see* **Butzer, Paul L.; et al.**, **89b:94006**
Stens, R. L. *see* **Butzer, Paul L.; et al.**, **89b:94006**
Vértesi, P. *see* **Hermann, Thomas; et al.**, **89h:41036**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series

Arkhipov, G. I. (*with* Oskolkov, K. I.) A special trigonometric series and its applications. **89a:42010**
Baskakov, V. A. Functions represented by sparse Fourier series. (Russian) (*see* **89c:00006**)
Bergh, Jöran Functions of bounded mean oscillation and Hausdorff-Young type theorems. **89i:42011**
Beriša, Muharem Č. (*with* Kastrati, R.) Fourier coefficients of lacunary double trigonometric series belonging to the function classes $S^0H_p^{r_1r_2}$. (Russian. English and Albanian summaries) **89g:42009**
Brennan, James E. Functions with rapidly decreasing negative Fourier coefficients. **89c:42004**
Dąbrowski, Romuald On Fourier coefficients of a continuous periodic function of bounded entropy norm. **89b:42002**
D′yachenko, M. I. Trigonometric series with monotone coefficients. (Russian) (*see* **89j:00036**)
— The analyticity of sums of trigonometric series with infinite-monotone coefficients. (Russian) **89a:42011**
Kastrati, R. *see* **Beriša, Muharem Č.**, **89g:42009**
Kislyakov, S. V. Fourier coefficients of continuous functions and a class of multipliers. (French summary) **89j:42004**
Meskhiya, R. S. Some properties of Fourier series with gaps. (Russian. English and Georgian summaries) **89i:42012**
Ôhashi, Katsuhiro *see* **Takahashi, Shigeru**, **89c:42005**
Olevskiĭ, A. M. An algebra of functions generated by uniformly converging Fourier series. **89a:42012**
Oskolkov, K. I. *see* **Arkhipov, G. I.**, **89a:42010**
Shogunbekov, Sh. Sh. Refinement of an asymptotic estimate for the sum of the series $\sum_{k=1}^{\infty} k^{-r} \sin kt$. (Russian) **89d:42009**
Soh, B. C. Fourier series of *B*-splines. **89a:42013**
Stanojević, Časlav V. *O*-regularly varying convergence moduli of Fourier and Fourier-Stieltjes series. **89a:42014**
Sun, Xie Hua On the Fourier series and quadrature errors of $\Lambda\mathrm{BV}_p$ functions. (Chinese) **89b:42003**
Takahashi, Shigeru (*with* Ôhashi, Katsuhiro) Nondifferentiability of functions defined by lacunary trigonometric series. **89c:42005**
Toader, Gh. Convex sequences and Fourier series. **89c:42006**
Vági, Stephen On the summation formula of Lipschitz. (Serbo-Croatian summary) **89i:42013**
Wojtaszczyk, P. Smoothness of functions and Fourier coefficients: a functional analyst's approach. **89h:42009**
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Beriša, Muharem Č. (*with* Kastrati, R.) Moduli of smoothness and coefficients of double lacunary trigonometric series. (Russian. English and Serbo-Croatian summaries) **89h:42001**
Blasco De La Cruz, Oscar On Fourier coefficients of operators. (Spanish. English summary) **89i:47052**
Dobi, J. A remark on the norm of the Banach space of uniformly strong convergent trigonometric series. **89g:46055**
Esquível, Manuel L. ★ Sur la méthode des séries de Fourier dans les équations différentielles à coefficients constants. (French) [The Fourier-series method in differential equations with constant coefficients] **89m:34010**
Jiang, Yin Sheng Note on a proof of W. Rudin. (Chinese. English summary) **89c:46036**
Kastrati, R. *see* **Beriša, Muharem Č.**, **89h:42001**
Koval′skaya, I. B. Approximation of periodic functions by analogues of Zygmund sums in a metric of the space L_p. (Russian) **89i:42005**
Mickens, R. E. Bounds on the Fourier coefficients for the periodic solutions of nonlinear oscillator equations. **89g:34048**
Moiseev, A. I. Calculation of some functions connected with the Hurwitz zeta-function. (Russian) **89j:11087**
Musielak, Julian Some applications of generalized Orlicz spaces in approximation theory and Fourier series. **89a:41043**
Perlstadt, Marci A. Oscillation properties for some polynomial analogues of the prolate spheroidal wave functions. **89h:33016**
Romanyuk, A. S. Approximation of periodic functions of several variables in a metric of L_q. (Russian) **89i:42008**
Sablin, A. I. Λ-variation and Fourier series. (Russian) **89c:42008**
Sharma, K. M. *see* **Singh, Niranjan**, **89g:42018**
Siddiqi, R. N. Sequences of Fourier-Young coefficients of a function of Wiener's class. **89h:42017**
Singh, Niranjan (*with* Sharma, K. M.) Integrability of trigonometric series. **89g:42018**
Srivastava, R. S. L. The $A(\sigma)$-summability of conjugate Fourier series. **89c:42010**
Taguchi, Yoshiko Fourier coefficients of periodic functions of Gevrey classes and ultradistributions. **89d:46041**
Waterman, Daniel On functions of bounded deviation. II. **89h:26011**
— A generalization of the Salem test. **89e:42007**

42A20 Convergence of Fourier and trigonometric series

Akhobadze, T. I. Uniform convergence and (C, α)-summability of trigonometric Fourier series. (Russian. English and Georgian summaries) (Not in MR)
Andrade, Doherty The Carleson-Hunt theorem. (Portuguese) (Not in MR)
Baskakov, A. V. Partial sums of Fourier series. (Russian) (*see* **89j:00036**)
Bilalov, B. T. Uniform convergence of series in a system of sines. (Russian) **89j:42005**
Darkenbaev, S. Z. Convergence of series of Fourier trigonometric coefficients. (Russian) (*see* **89a:00016**)
Dzagnidze, O. P. Convergence of a Hartogs-Fourier series. (Russian. English and Georgian summaries) **89g:42010**
Èpremidze, L. N. Convergence of Fourier series in the space *L*. (Russian. English and Georgian summaries) **89a:42015**
Falaleev, L. P. (*with* Syusyukalov, A. I.) Asymptotic behavior of the Lebesgue constants. (Russian) (*see* **89c:00006**)
Jurkat, W. B. A local form of Carleson's theorem for trigonometric series. **89j:42006**
Krotov, V. G. Smoothness of N. N. Luzin primitives, and theorems of D. E. Men′shov and N. K. Bari. **89c:42007**
Olevskiĭ, A. M. Homeomorphisms of the circle, modifications of functions, and Fourier series. (Russian) **89f:42006**
Oniani, G. T. Topological characterization of a set of continuous functions whose conjugate functions are continuous and have bounded variation. (Russian) **89h:42010**
Ramsamujh, T. I. A correction: "A comparison of the Jordan and Dini tests" [Real Anal. Exchange 12 (1986/87), no. 2, 510–515; MR 88i:42015]. **89m:42003**
Rataj, Jan (*with* Zítek, František) Sur la norme de Fourier. III. (Russian and Czech summaries) [On the Fourier norm. III] **89h:42011**
Sablin, A. I. Λ-variation and Fourier series. (Russian) **89c:42008**
Sharma, K. M. *see* **Singh, Niranjan**, **89d:42010**
Sheng, Shu Yun Some recent results on L^1 convergence of trigonometric series. (Chinese) **89a:42016**
— Some theorems on L^1 convergence. (Chinese. English summary) **89m:42004**
Shloma, L. I. Transformation of Fourier series by numerical multiplicative functions. (Russian) (Not in MR)
Singh, Niranjan (*with* Sharma, K. M.) The integrability of generalized Garrett-Stanojević sums. **89d:42010**
Stanojević, Časlav V. (*with* Stanojevic, Vera B.) Generalizations of the Sidon-Telyakovskiĭ theorem. **89a:42017**

Stanojevic, Vera B. *see* **Stanojević, Časlav V., 89a:42017**
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Tomaszewski, Bogusław A simple and elementary proof of the Kchintchine inequality with the best constant. (French summary) **89b:42004**
Wang, Kun Yang Convergence of multiple Fourier series. (Chinese. English summary) **89m:42005**
Waterman, Daniel A generalization of the Salem test. **89e:42007**
Zadereĭ, P. V. On the rate of convergence of Fourier series of $(\overline{\psi}, \overline{\beta})$-differentiable functions of two variables. (Russian) **89c:42009**
Zítek, František *see* **Rataj, Jan, 89h:42011**

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Ajtai, Miklós (*with* Kechris, Alexander S.) The set of continuous functions with everywhere convergent Fourier series. **89b:04005**
Arkhipov, G. I. (*with* Oskolkov, K. I.) A special trigonometric series and its applications. **89a:42010**
Avdispahić, Muharem On the strong convergence of trigonometric series of a special type. (Serbo-Croatian summary) **89g:42017**
Bloom, Walter R. Fourier series of local Lipschitz functions on zero-dimensional groups. **89k:43005**
Dąbrowski, Romuald On Fourier coefficients of a continuous periodic function of bounded entropy norm. **89b:42002**
Das, Gokulananda (*with* Mohanty, S. K.) Almost sure convergence of factored random Fourier series. **89g:60176**
Fominykh, M. Yu. Convergence almost everywhere of Riemann sums. (Russian) **89b:26010**
Kechris, Alexander S. *see* **Ajtai, Miklós, 89b:04005**
Kushpel′, A. K. *see* **Stepanets, A. I., 89a:42008**
Mohanty, S. K. *see* **Das, Gokulananda, 89g:60176**
Olevskiĭ, A. M. An algebra of functions generated by uniformly converging Fourier series. **89a:42012**
Oskolkov, K. I. *see* **Arkhipov, G. I., 89a:42010**
Srivastava, R. S. L. The $A(\sigma)$-summability of conjugate Fourier series. **89c:42010**
Stepanets, A. I. (*with* Kushpel′, A. K.) Rate of convergence of Fourier series and best approximations in the space L_p. (Russian) **89a:42008**
Subbotin, Yu. N. Numerical methods for the approximation of functions and mathematical experiments. (Russian) **89b:65027**
Szalay, I. On Hilbert space of almost everywhere $|I|_2$ convergent Fourier series. (Serbo-Croatian summary) **89i:42016**
Walter, Gilbert G. Sampling bandlimited functions of polynomial growth. **89h:42007**

42A24 Summability of Fourier and trigonometric series

Bala, Renu (*with* Ram, Babu) On the degree of approximation of a class of functions by means of Fourier series. **89d:42011**
Bojanić, R. (*with* Mazhar, S. M.) An estimate of the rate of convergence of Cesàro means of Fourier series of functions of bounded variation. **89h:42012**
Bugrov, Ya. S. The rate of convergence of linear means of Fourier series. (Russian) (*see* **89j:00035**)
Cameron, David Summation of trigonometric series. **89g:42011**
Das, Gokulananda (*with* Panda, K. C.) On a generalised absolute harmonic summability of Fourier series. **89g:42012**
Deshpande, N. V. (*with* Kale, P. P.) A note on K^λ-summability of Fourier series. **89g:42013**
Gaforov, A. The saturation class and saturation order of a linear method for the summation of Fourier series. (Russian. Tajiki summary) **89d:42012**
Ganguly, Ashok On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. **89h:42013**
— *see also* **Jain, Rajendra Kumar^1, 89g:42014**
Gavrilyuk, V. T. On the approximate characterization of functions of the classes X_0^ψ. (Russian) **89h:42014**
Gogoladze, L. D. On strong summability almost everywhere. **89h:42015**
Jain, Rajendra Kumar^1 (*with* Ganguly, Ashok) On the strong Perron summability of Fourier series and its conjugate series. **89g:42014**
Kale, P. P. *see* **Deshpande, N. V., 89g:42013**
Kasana, Harvir S. *see* **Prasad, Govind, 89k:42006**
Khare, Satya Prakash (*with* Singh, Peetam) Summability of Fourier series and its conjugate series. **89g:42015**
Korovkina, V. I. Asymptotic properties of positive methods for the summation of Fourier series. (Russian) (*see* **89c:00006**)
Kuang, Ji Chang The Nörlund-Voronoĭ means of Fourier-Legendre operators. (Chinese. English summary) **89k:42005**
Liu, Li Wan On Cesàro means of Fourier series and power series. (Chinese. English summary) **89b:42005**
Mazhar, S. M. *see* **Bojanić, R., 89h:42012**
Nguyễn Xuân Ký On the order of magnitude of the approximation by Riesz means. (Hungarian) **89h:42016**
Osilenker, B. P. Fourier series in orthonormal matrix polynomials. **89f:42007**
Panda, K. C. *see* **Das, Gokulananda, 89g:42012**
Pandey, K. P. *see* **Tripathi, L. M.; et al., 89f:42008**
Pathak, H. K. A note on Fourier coefficients. **89d:42013**
Prasad, Govind (*with* Kasana, Harvir S.) On linear methods of summations of a Fourier series. **89k:42006**
Rafal′son, S. Z. Linear methods of summability of Fourier-Legendre series. (Russian) (*see* **89f:00013**)
Ram, Babu *see* **Bala, Renu, 89d:42011**
Rempulska, Lucyna Some properties of summability methods of the Abel type. II. **89b:42006**
— On the summability of orthonormal series by the logarithmic methods. **89g:42016**
Rhoades, B. E. (*with* Shi, Xian Liang) Chebyshev summability of Fourier series. **89d:42014**
— Matrix summability of Fourier series based on inclusion theorems. II. **89b:42007**
Satyanarayan Rao, Aribindi On the order of magnitude of the matrix transform of a class of derived Fourier series. II. **89j:42007**
Shi, Xian Liang *see* **Rhoades, B. E., 89d:42014**
Shrivastava, S. K. On the Hausdorff summability of Fourier series. **89a:42018**
Siddiqi, R. N. Sequences of Fourier-Young coefficients of a function of Wiener's class. **89h:42017**
Singh, Peetam *see* **Khare, Satya Prakash, 89g:42015**
Srivastava, R. S. L. The $A(\sigma)$-summability of conjugate Fourier series. **89c:42010**
Sulaiman, W. T. $|\overline{N}, p_n|_k$ summability of series associated with Fourier series. **89i:42015**
— On $|V, \lambda|_k$ summability factors of Jacobi series. **89h:42018**
Szalay, I. On Hilbert space of almost everywhere $|I|_2$ convergent Fourier series. (Serbo-Croatian summary) **89i:42016**
Tripathi, L. M. (*with* Tripathi, V. N.; Pandey, K. P.) On strong Perron summability of a Fourier series. **89f:42008**
Tripathi, V. N. *see* **Tripathi, L. M.; et al., 89f:42008**
Zhang, Yan^2 Convergence and asymptotic behavior of generalized Abel means on $H^p(T^n)$ $(0 < p \leq 1)$. (Chinese) (Not in MR)

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Akhobadze, T. I. Uniform convergence and (C, α)-summability of trigonometric Fourier series. (Russian. English and Georgian summaries) (Not in MR)
Avdispahić, Muharem On the strong convergence of trigonometric series of a special type. (Serbo-Croatian summary) **89g:42017**
Bregvadze, D. V. Summability of multiple orthogonal series by a Cesàro method of mixed type. (Russian. English and Georgian summaries) **89k:42012**
Chandra, Prem Functions belonging to Lip α and Lip(α, p) spaces and their approximations **89a:42005**
De Souza, Geraldo Soares (*with* O'Neil, Richard; Sampson, G.) Several characterizations for the special atom spaces with applications. **89a:46066**
Glukhov, V. A. A comparison of (C, α) means, and a condition for Nikol′skiĭ-type summability of Fourier series in multiplicative systems. (Russian) (*see* **89j:00036**)
Gorodetskiĭ, V. V. A method of summation of Gauss-Weierstrass type of multiple Fourier series in spaces of generalized functions. **89j:42012**
Gupta, Sunita (*with* Pandey, G. S.) On the degree of approximation to a function by the Nörlund means of its Fourier series. **89g:42005**
Kazaryan, K. S. Summability of generalized Fourier series and Dirichlet's problem in $L^p(d\mu)$ and weighted H^p-spaces $(p > 1)$. (Russian summary) **89b:42023**
— Weighted inequalities for families of operators generated by truncated Cesàro kernels. **89g:42008**
Maravić, Manojlo On an application of slowly oscillating functions with remainder term to the summability of spherically summed multiple Fourier series. (Serbo-Croatian summary) **89c:42018**
O'Neil, Richard *see* **De Souza, Geraldo Soares; et al., 89a:46066**
Pandey, G. S. *see* **Gupta, Sunita, 89g:42005**
Pilauri, N. Sh. On the saturation class of Cesàro two-dimensional angular methods. (Russian. English and Georgian summaries) **89c:42019**
Rakhimov, A. A. Uniform convergence of spectral expansions of a continuous function in a closed domain. (Russian) **89g:35084**
Sampson, G. *see* **De Souza, Geraldo Soares; et al., 89a:46066**
Savić, Vladimir N. Asymptotic behaviour of the oscillation of the sequences of the linear transformations of the Fourier series. (Czech summary) **89j:42002**
Sharma, K. M. *see* **Singh, Niranjan, 89d:42010**
Singh, Niranjan (*with* Sharma, K. M.) The integrability of generalized Garrett-Stanojević sums. **89d:42010**
Zhizhiashvili, L. V. Singularities of Cesàro means of multiple trigonometric Fourier series. (Not in MR)

42A28 Absolute convergence, absolute summability

Avetisyan, Ruben Avetisovich (*with* Oganesyan, S. M.) The generalized D-property of trigonometric series. (Russian. Armenian summary) **89d:42015**
Chandra, Prem Absolute summability factors. **89i:42017**
Dhal, N. B. Absolute $|C, 1|$ summability factors of Fourier series. (Not in MR)
Kumar, Narendra^2 *see* **Mittal, M. L.; et al., 89d:42016**
Mittal, M. L. (*with* Prasad, Govind; Kumar, Narendra^2) On multipliers for the absolute matrix summability. **89d:42016**
Oganesyan, S. M. *see* **Avetisyan, Ruben Avetisovich, 89d:42015**
Pachulia, N. L. *see* **Stepanets, A. I., 89b:42008**
Prasad, Govind *see* **Mittal, M. L.; et al., 89d:42016**
Savić, Vladimir N. Some numerical inequalities and their use in the theory of strong summability of Fourier series. (Serbo-Croatian. English summary) **89f:42009**
Stepanets, A. I. (*with* Pachulia, N. L.) On the behavior of a group of deviations on sets of (ψ, β)-differentiable functions. **89b:42008**
Sulaiman, W. T. Multipliers for $|C, 1|$ summability of Jacobi series. **89c:42011**
Tsagareĭshvili, V. Sh. Absolute convergence of Fourier series of functions of class V with respect to general orthonormal systems. (Russian. English and Georgian summaries) **89k:42007**
Wang, Kun Yang Further discussion on strong summability of multiple conjugate Fourier series. **89i:42018**
Zhuk, V. V. On the problem of the strong summability of trigonometric Fourier series. (Russian. English summary) **89d:42017**

Items with secondary classifications in 42A28

Henrich, Wolfgang Absolute und starke Summierbarkeit von Orthogonalreihen mit Hausdorff-Verfahren. [Absolute and strong summability of orthogonal series by Hausdorff methods] **89g:42044**
Mishra, K. N. (*with* Srivastava, R. S. L.) Absolute summability factors for Nörlund means. **89i:40002**
Naftalevich, A. On power series and their real parts. **89m:30005**
Olevskiĭ, A. M. Homeomorphisms of the circle, modifications of functions, and Fourier series. (Russian) **89f:42006**
Pachulia, N. L. Strong summability of Fourier series. (Russian) **89g:42007**

Srivastava, R. S. L. *see* **Mishra, K. N., 89i:40002**
Wang, Kun Yang Further discussion of strong summability of conjugate multiple Fourier series. (Chinese) (Not in MR)

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

Avdispahić, Muharem On the strong convergence of trigonometric series of a special type. (Serbo-Croatian summary) **89g:42017**
Kumari, Suresh *see* **Ram, Babu, 89k:42008**
Ram, Babu (*with* Kumari, Suresh) On the integral modulus of continuity of Fourier series. **89k:42008**
Sharma, K. M. *see* **Singh, Niranjan, 89g:42018**
Singh, Niranjan (*with* Sharma, K. M.) Integrability of trigonometric series. **89g:42018**

Items with secondary classifications in 42A32

Beriša, Muharem Č. (*with* Kastrati, R.) Fourier coefficients of lacunary double trigonometric series belonging to the function classes $S^0H_p^{r_1r_2}$. (Russian. English and Albanian summaries) **89g:42009**
Brennan, James E. Functions with rapidly decreasing negative Fourier coefficients. **89c:42004**
Cameron, David Summation of trigonometric series. **89g:42011**
Kastrati, R. *see* **Beriša, Muharem Č., 89g:42009**
Stanojević, Časlav V. (*with* Stanojevic, Vera B.) Generalizations of the Sidon-Telyakovskiĭ theorem. **89a:42017**
— Structure of Fourier and Fourier-Stieltjes coefficients of series with slowly varying convergence moduli. **89g:41010**
Stanojevic, Vera B. *see* **Stanojević, Časlav V., 89a:42017**

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Barceló, Juan Antonio (*with* Córdoba, Antonio) Band-limited functions: L^p-convergence. **89c:42012**
van Berkel, C. A. M. (*with* de Graaf, Jan) On a property of the Fourier-cosine transform. (Not in MR)
Bracewell, Ronald N. ★ The Fourier transform and its applications. **89c:42013**
Córdoba, Antonio *see* **Barceló, Juan Antonio, 89c:42012**
(Fourier, Jean Baptiste Joseph) *see* **Bracewell, Ronald N., 89c:42013**
de Graaf, Jan *see* **van Berkel, C. A. M., (Not in MR)**
Grow, David Sidon sets and I_0-sets. **89a:42019**
Kaneta, Hitoshi Fourier-Laplace transforms decaying exponentially. **89a:42020**
Kerr, Fiona H. A distributional approach to Namias' fractional Fourier transforms. **89g:42019**
Matvienko, A. N. Analytic continuation of the Fourier transforms of compactly supported functions. **89m:42006**
Mustard, David Lie group imbeddings of the Fourier transform and a new family of uncertainty principles. **89i:42019**
Nakajima, Nobuharu Phase retrieval using the logarithmic Hilbert transform and the Fourier-series expansion. **89e:42008**
Reese, Sylvester Some Fourier-Stieltjes coefficients revisited. **89i:42020**
Smotrovs, A. Ya. Application of the F-A method for the inversion of the Fourier integral transform. (Russian) **89c:42014**
Younis, M. S. Fourier transformations of functions with symmetrical differences. **89k:42009**

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Akama, Hachiro An extension of the Fourier convolution theorem in terms of Poisson brackets. **89e:78018**
Ansari, Rashid *see* **Çetin, A. Enis, 89i:94008**
Benedetto, John J. A quantitative maximum entropy theorem for the real line. **89c:42003**
Borm, G. F. *p*-adic Fourier transforms. **89f:42023**
Bourgain, J. A nonlinear version of Roth's theorem for sets of positive density in the real line. **89i:11017**
Butzer, Paul L. (*with* Stens, R. L.) Linear prediction in terms of samples from the past: an overview. **89i:42022**
Çetin, A. Enis (*with* Ansari, Rashid) Convolution-based framework for signal recovery and applications. **89i:94008**
Chan Tkhi Le *see* **Magaril-Il'yaev, G. G., 89a:41046**
Daubechies, Ingrid Discrete sets of coherent states and their use in signal analysis. **89c:94012**
Elliott, David *see* **McLean, William, 89m:44012**
Grant, Andrew Fourier transforms and the P.N.T. error term. (Russian and Czech summaries) **89c:11139**
— A further note on the P.N.T. error term. (Russian and Czech summaries) **89c:11140**
Hofmann-Wellenhof, B. (*with* Moritz, Helmut) Introduction to spectral analysis. **89g:86003**
Hofstee, P. (*with* Tip, A.) Fourier transforms and the dilatation group. **89h:47058**
Howard, R. E. A note on Roe's characterization of the sine function. **89g:33001**
Kim, Sung Ki Asymptotic behavior of a generalized Fourier-Laplace transform. **89i:46048**
Magaril-Il'yaev, G. G. (*with* Chan Tkhi Le) On the problem of the optimal recovery of functionals. (Russian) **89a:41046**
McLean, William (*with* Elliott, David) On the *P*-norm of the truncated Hilbert transform. **89m:44012**
Moritz, Helmut *see* **Hofmann-Wellenhof, B., 89g:86003**
Morozov, A. M. Orthogonal transformations of logic functions. (Russian. English summary) **89g:94051**
Prasad, Y. N. (*with* Yadav, G. S.) Fourier series for the multivariable *I*-function. **89h:33007**
Prüss, Jan Bounded solutions of Volterra equations. **89a:45027**
Saitoh, Saburou Fourier-Laplace transforms and the Bergman spaces. **89c:32014**
Shatalov, V. E. *see* **Sternin, B. Yu., 89j:58138**
Stens, R. L. *see* **Butzer, Paul L., 89i:42022**
Sternin, B. Yu. (*with* Shatalov, V. E.) Laplace-Radon integral operators and singularities of solutions of differential equations on complex manifolds. **89j:58138**
Szőkefalvi-Nagy, Béla Bohr inequality and an operator equation. **89a:47024**
Tip, A. *see* **Hofstee, P., 89h:47058**
Vogt, L. Sampling sums with kernels of finite oscillation. **89j:94010**
Vũ Kim Tuấn New classes of index integral transformations. **89h:44001**
— Some integral transforms of Fourier convolution type. **89i:44009**
Yadav, G. S. *see* **Prasad, Y. N., 89h:33007**

42A45 Multipliers

Coifman, Ronald R. (*with* Rubio de Francia, José Luis; Semmes, Stephen W.) Multiplicateurs de Fourier de $L^p(\mathbf{R})$ et estimations quadratiques. (English summary) [Fourier multipliers on $L^p(\mathbf{R})$ and quadratic estimates] **89e:42009**
Dąbrowski, Romuald On a natural connection between the entropy spaces and Hardy space $\operatorname{Re} H^1$. **89m:42007**
Larsen, Ronald A theorem concerning the multipliers for functions with Fourier transforms in L_p. **89i:42021**
McIntosh, Alan G. R. (*with* Qian, Tao) Fourier theory on Lipschitz curves. **89c:42015**
Qian, Tao *see* **McIntosh, Alan G. R., 89c:42015**
Rubio de Francia, José Luis *see* **Coifman, Ronald R.; et al., 89e:42009**
Semmes, Stephen W. *see* **Coifman, Ronald R.; et al., 89e:42009**

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Benzinger, Harold E. A generalization of nonharmonic Fourier series. **89j:42022**
Hare, Kathryn E. Properties and examples of (L^p, L^q) multipliers. **89m:43010**
Kumar, Narendra^2 *see* **Mittal, M. L.; et al., 89d:42016**
Lu, Shan Zhen Approximation properties of Riesz means at critical index on real Hardy spaces. **89h:42028**
Mittal, M. L. (*with* Prasad, Govind; Kumar, Narendra^2) On multipliers for the absolute matrix summability. **89d:42016**
Prasad, Govind *see* **Mittal, M. L.; et al., 89d:42016**
Ricker, Werner Spectral properties of the Laplace operator in $L^p(\mathbf{R})$. **89h:47071**

42A50 Conjugate functions, conjugate series, singular integrals

Adomaitis, K. V. A problem of G. Weiss. (Russian) (*see* **89j:00036**)
Greenberg, William (*with* van der Mee, C. V. M.; Waluś, Włodzimierz) Strong solutions of stationary equations in abstract kinetic theory. **89e:42010**
Gurielashvili, R. I. Integrability of a conjugate function in L^p with power weight. (Russian) **89m:42008**
Kerman, R. A. Convolution with odd kernels having a tempered singularity. **89b:42009**
Kurtz, Douglas S. Rearrangement inequalities for Littlewood-Paley operators. **89c:42016**
Mamedkhanov, Dzh. I. (*with* Salaev, V. V.) Local properties of singular integrals. (Russian) **89k:42010**
van der Mee, C. V. M. *see* **Greenberg, William; et al., 89e:42010**
Murray, Margaret A. M. Multilinear singular integrals involving a derivative of fractional order. **89g:42020**
Pan, Wen Xi (*with* Xie, Hui Man) Weak boundedness of Fourier operators and conjugate transforms. (Chinese. English summary) **89d:42018**
Rzaev, R. M. A problem connected with a problem of L. Leindler. (Russian) **89b:42010**
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Bekzatov, B. The rate of convergence of linear means of a conjugate series. (Russian. Kazakh summary) **89i:42003**
Bruna, Joaquim (*with* Korenblum, Boris) On Kolmogorov's theorem, the Hardy-Littlewood maximal function and the radial maximal function. **89k:42020**
Carton-Lebrun, C. A real variable definition of the Hilbert transform on $\mathscr{D}'$ and $\mathscr{S}'$. **89m:46079**
Hewitt, Edwin *see* **Asmar, Nakhlé, 89h:43007**
Korenblum, Boris *see* **Bruna, Joaquim, 89k:42020**
McIntosh, Alan G. R. (*with* Qian, Tao) Fourier theory on Lipschitz curves. **89c:42015**
Murai, Takafumi ★ A real variable method for the Cauchy transform, and analytic capacity. **89k:30022**
Qian, Tao *see* **McIntosh, Alan G. R., 89c:42015**
Song, Xian Zong Analysis of the remainder term in some asymptotic expansions for oscillatory singular integrals. (Chinese) **89i:41030**

42A55 Lacunary series of trigonometric and other functions; Riesz products

Baskakov, V. A. Classes of functions with increasing lacunarity. (Russian) (*see* **89j:00035**)
Belov, A. S. Smoothness of the sum of a lacunary trigonometric series. (Russian) **89g:42021**
Nillsen, Rodney Some basic sequences and their moment operators. **89f:42010**
— Piecewise linear functions and series expansions in terms of Dirichlet and Fejér kernels. (*see* **89b:00024**)

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Baskakov, V. A. Functions represented by sparse Fourier series. (Russian) (*see* **89c:00006**)

Shao, Qi Man Strong approximations on lacunary trigonometric series with weights. **89j:42003**

42A61 Probabilistic methods

Items with secondary classifications in 42A61

Das, Gokulananda (*with* Mohanty, S. K.) Almost sure convergence of factored random Fourier series. **89g:60176**
Farahmand, K. On the number of real zeros of a random trigonometric polynomial: coefficients with nonzero infinite mean. **89h:42003**
Gaposhkin, V. F. Summation of weakly dependent sequences by Cesàro methods. (Russian summary) **89c:40009**
Kashin, B. S. The properties of random trigonometric polynomials with ±1 coefficients. (Russian) **89a:60135**
Mohanty, S. K. *see* **Das, Gokulananda, 89g:60176**

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Lyons, Russell Errata to: "Wiener's theorem, the Radon-Nikodým theorem, and $M_0(\mathrm{T})$" [Ark. Mat. **24** (1986), no. 2, 277–282; MR 88e:42019]. **89d:42019**

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Debs, G. (*with* Saint-Raymond, J.) Ensembles boréliens d'unicité et d'unicité au sens large. (English summary) [Borel sets of uniqueness and uniqueness in the broad sense] **89d:04007**
Saint-Raymond, J. *see* **Debs, G., 89d:04007**
Skopina, M. A. On the localization principle for double trigonometric Fourier series. **89j:42013**
Strizhkov, V. A. Well-posedness of Fredholm integral equations of the first kind of potential type for thin conductors. (Russian) **89k:45002**
Talalyan, A. A. On the uniqueness of multiple trigonometric series. **89a:42023**

42A65 Completeness of sets of functions

Kaz'min, Yu. A. Approximation properties in L_2 of some function sequences. **89j:42009**
Pan, Wen Xi A generalization of Wiener's theorems concerning the closure of translating span in $L^2(-\infty,\infty)$. **89k:42011**
Sedletskii, A. M. Completeness and nonminimality of systems of exponentials in $L^p(-\pi,\pi)$. **89j:42010**

42A70 Trigonometric moment problems

Doukhan, Paul Formes de Toeplitz associées à une analyse multi-échelle. (English summary) [Toeplitz forms associated to a multiscale analysis] **89d:42020**

Items with secondary classifications in 42A70

Cotlar, Mischa (*with* Sadosky, Cora) Toeplitz liftings of Hankel forms. **89k:47039**
Delsarte, P. (*with* Genin, Yves) The tridiagonal approach to Szegő's orthogonal polynomials, Toeplitz linear systems, and related interpolation problems. **89d:30040**
Fil'shtinskii, V. A. *see* **Litvinets, P. D., 89g:42001**
Genin, Yves *see* **Delsarte, P., 89d:30040**
Ivanchenko, T. S. (*with* Sakhnovich, L. A.) Operator identities in the theory of interpolation problems. (Russian. English and Armenian summaries) **89a:47023**
Kueh, Ka-Lam The moments of infinite series. **89c:11131**
Litvinets, P. D. (*with* Fil'shtinskii, V. A.) λ-transformation of trigonometric polynomials and entire functions. (Russian) **89g:42001**
Sadosky, Cora *see* **Cotlar, Mischa, 89k:47039**
Sakhnovich, L. A. *see* **Ivanchenko, T. S., 89a:47023**

42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Zaidman, S. Integration of Poisson stable functions of two variables. **89b:42011**

Items with secondary classifications in 42A75

Xiao, Yi Min The equivalence problem for classes of almost periodic functions of two variables. (Chinese. English summary) **89m:42018**

42A82 Positive definite functions

Items with secondary classifications in 42A82

Berg, Christian Fonctions définies négatives et majoration de Schur. [Negative definite functions and Schur majorization] **89c:31005**
Fil'shtinskii, V. A. *see* **Litvinets, P. D., 89g:42001**
Johansson, Kurt On Szegö's asymptotic formula for Toeplitz determinants and generalizations. (French summary) **89m:47021**
Litvinets, P. D. (*with* Fil'shtinskii, V. A.) λ-transformation of trigonometric polynomials and entire functions. (Russian) **89g:42001**
Sasvári, Zoltán Decomposition of positive definite functions defined on a neighbourhood of the identity. **89a:43007**

42A85 Convolution, factorization

Butzer, Paul L. (*with* Stens, R. L.) Linear prediction in terms of samples from the past: an overview. **89i:42022**
Doss, Raouf An elementary proof of Titchmarsh's convolution theorem. **89g:42022**
Feichtinger, Hans G. An elementary approach to Wiener's third Tauberian theorem for th Euclidean n-space. **89i:42023**
Jurkat, W. B. (*with* Sampson, G.) Two weighted estimates for oscillating kernels. I. **89i:42024**
Oberlin, Daniel M. Multilinear convolutions defined by measures on spheres. **89g:42023**
Sampson, G. *see* **Jurkat, W. B., 89i:42024**
Stens, R. L. *see* **Butzer, Paul L., 89i:42022**
Wang, Bing Chang A sufficient condition for the maximum operator of a convolution operator to be of weak (1, 1) type. (Chinese) (Not in MR)

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Akama, Hachiro An extension of the Fourier convolution theorem in terms of Poisson brackets. **89e:78018**
Cotlar, Mischa (*with* Sadosky, Cora) Toeplitz liftings of Hankel forms. **89k:47039**
Dickson, D. G. Factoring Fourier transforms with zeros in a strip. **89k:30027**
Maligranda, Lech Korovkin theorem in symmetric spaces. **89a:41031**
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Sadosky, Cora *see* **Cotlar, Mischa, 89k:47039**

42A99 None of the above, but in this section

Babenko, V. F. (*with* Polyakov, O. V.) Sharp estimates for some characteristics of classes periodic functions. (Russian) **89d:42021**
Badkov, V. M. Generalization of a theorem of I. A. Ibragimov and V. N. Solev. (Russian) **89m:42009**
Polyakov, O. V. *see* **Babenko, V. F., 89d:42021**

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Freiman, G. (*with* Halberstam, H.) On a product of sines. **89d:11069**
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Liardet, Pierre Propriétés harmoniques de la numération suivant Jean Coquet. [Harmoni properties of numbering following Jean Coquet] **89i:11087**
Shloma, L. I. Reconstruction of a function from formulas for rectangles. (Russian) **89d:65020**

42Bxx Fourier analysis in several variables

Items with secondary classifications in 42Bxx

Bourdaud, Gérard ★ Analyse fonctionnelle dans l'espace euclidien. (French) [Functional analysis in Euclidean space] **89a:46001**
Fefferman, Robert Multiparameter Fourier analysis. **89a:42001**

42B05 Fourier series and coefficients

Belinskiĭ, È. S. (*with* Liflyand, I. R.) The behavior of Lebesgue constants of hyperbolic partial sums. **89g:42024**
Bregvadze, D. V. Convergence of subsequences of partial sums of multiple orthogonal seri (Russian. English and Georgian summaries) **89j:42011**
— Summability of multiple orthogonal series by a Cesàro method of mixed type. (Russian. English and Georgian summaries) **89k:42012**
D'yachenko, M. I. (C,α)-summability of multiple trigonometric Fourier series. (Russian. English and Georgian summaries) **89m:42010**
Gogoladze, L. D. ★ О поведении кратных сопряженных тригонометрических рядов и степенных рядов. (Russian) [The behavior of multiple conjugate trigonometric series ar power series] **89h:42019**
Gorodetskiĭ, V. V. A method of summation of Gauss-Weierstrass type of multiple Fourier series in spaces of generalized functions. **89j:42012**
Gutknecht, Martin Attenuation factors in multivariate Fourier analysis. **89d:42022**
Ivanova, L. D. Orthogonal harmonic polynomials in two variables, and generalized functions. (Russian) (*see* **89c:00006**)
Kheladze, Sh. V. On the divergence of multiple Fourier series on a given set of zero measur (Russian) **89a:42021**
Li, Ji Bin *see* **Wan, Shi Dong, 89k:42015**
Liflyand, I. R. *see* **Belinskiĭ, È. S., 89g:42024**
Lu, Shan Zhen Strong summability with weights for Bochner-Riesz means. (Chinese. English summary) **89c:42017**
Maravić, Manojlo On an application of slowly oscillating functions with remainder term to the summability of spherically summed multiple Fourier series. (Serbo-Croatian summary) **89c:42018**
Móricz, F. (*with* Rhoades, B. E.) Approximation by Nörlund means of double Fourier series for Lipschitz functions. **89b:42012**
— Approximation theorems for double orthogonal series. II. **89g:42025**
— Convergence and integrability of double trigonometric series with coefficients of bounde variation. **89a:42022**
ter Morsche, H. G. Attenuation factors and multivariate periodic spline interpolation. **89e:42011**
Pilauri, N. Sh. On the saturation class of Cesàro two-dimensional angular methods. (Russian. English and Georgian summaries) **89c:42019**
Price, John F. (*with* Shepp, L. A.) A counterexample to localization for multiple Fourier series. **89c:42020**
— Supports and localization for multiple Fourier series. (*see* **89b:00024**)
Rhoades, B. E. *see* **Móricz, F., 89b:42012**
Rukasov, V. I. Approximation of continuous periodic functions of several variables by Bernstein polynomials of interpolation type. (Russian) **89h:42020**
Shepp, L. A. *see* **Price, John F., 89c:42020**
Skopina, M. A. On the localization principle for double trigonometric Fourier series. **89j:42013**

Tabatadze, G. Z. Absolute convergence of Fourier series with respect to completely bounded systems. (Russian. English and Georgian summaries) **89k:42013**

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Talalyan, A. A. On the uniqueness of multiple trigonometric series. **89a:42023**

— Some uniqueness properties of multiple trigonometric series and harmonic functions. **89j:42014**

Wan, Shi Dong (*with* Li, Ji Bin) Fourier series of rational fractions of Jacobian elliptic functions. **89k:42015**

Wang, Kun Yang Further discussion of strong summability of conjugate multiple Fourier series. (Chinese) (Not in MR)

Zhizhiashvili, L. V. Singularities of Cesàro means of multiple trigonometric Fourier series. (Not in MR)

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Bugrov, Ya. S. Embedding theorems and the convergence of multiple Fourier series. (Russian) **89g:46062**

Galeev, È. M. Orders of orthoprojection widths of classes of periodic functions of one and several variables. **89g:42004**

Sablin, A. I. Λ-variation and Fourier series. (Russian) **89c:42008**

Saitoh, Saburou Fourier-Laplace transforms and the Bergman spaces. **89c:32014**

Younis, M. S. On strong approximation of Fourier series. **89f:42005**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Barceló, B. On the restriction of the Fourier transform and Fourier series to circles of lacunary radii. **89e:42012**

Bruna, Joaquim (*with* Nagel, Alexander; Wainger, Stephen) Convex hypersurfaces and Fourier transforms. **89d:42023**

Cowling, Michael (*with* Disney, Shaun) Oscillatory integrals. **89g:42026**

— (*with* Mauceri, Giancarlo) Oscillatory integrals and Fourier transforms of surface carried measures. **89e:42013**

Disney, Shaun *see* **Cowling, Michael, 89g:42026**

Drury, S. W. Estimates for a multilinear form on the sphere. **89m:42011**

Dzagnidze, O. P. Hartogs-Fourier series. (Russian) (*see* **89j:00036**)

Goodrich, R. K. (*with* Gustafson, K. E.) Spectral estimation and factorization in higher dimensions. **89c:42021**

Gustafson, K. E. *see* **Goodrich, R. K., 89c:42021**

Kostetskaya, G. S. (*with* Samko, S. G.) A condition for the absolute integrability of Fourier integrals. **89g:42027**

Marshall, B. P. Decay rates of Fourier transforms of curves. **89m:42012**

Mauceri, Giancarlo *see* **Cowling, Michael, 89e:42013**

Nagel, Alexander *see* **Bruna, Joaquim; et al., 89d:42023**

Prestini, Elena Almost everywhere convergence of the spherical partial sums for radial functions. **89g:42028**

Samko, S. G. *see* **Kostetskaya, G. S., 89g:42027**

Wainger, Stephen *see* **Bruna, Joaquim; et al., 89d:42023**

Items with secondary classifications in 42B10

Álvarez, Josefina (*with* Durán, R.) L^p continuity of pseudo-differential operators with discontinuous symbol. **89i:42026**

Caelli, T. M. *see* **Ferraro, Mario, 89j:45001**

Dappa, H. (*with* Trebels, W.) Pointwise multiplication on anisotropic Bessel potential spaces. **89c:42022**

— (*with* Trebels, W.) A difference quotient norm for anisotropic Bessel potential spaces. **89m:46063**

Dostál, Miloš (*with* Gaveau, Bernard) Développements asymptotiques explicites d'intégrales de Fourier pour certains points critiques dégénérés. (English summary) [Explicit asymptotic expansion of Fourier integrals with certain degenerate critical points] **89a:58103**

Durán, R. *see* **Álvarez, Josefina, 89i:42026**

Ferraro, Mario (*with* Caelli, T. M.) Relationship between integral transform invariances and Lie group theory. **89j:45001**

Gaveau, Bernard *see* **Dostál, Miloš, 89a:58103**

Hogan, Jeffrey A. A qualitative uncertainty principle for locally compact abelian groups. **89k:43006**

Strichartz, Robert S. Besicovitch meets Wiener-Fourier expansions and fractal measures. **89h:28015**

Trebels, W. *see* **Dappa, H., 89c:42022** *and* **89m:46063**

Yu, Shu Mo The Fourier transform for vector-valued functions. (Chinese) **89a:43006**

42B15 Multipliers

Andersen, K. F. Weighted norm inequalities for Bochner-Riesz spherical summation multipliers. **89i:42025**

Börjeson, Lennart Mixed norm estimates for certain means. **89d:42024**

Daly, James E. (*with* Phillips, Keith) On the classification of homogeneous multipliers bounded on $H^1(\mathbf{R}^2)$. **89k:42016**

Dappa, H. (*with* Trebels, W.) Pointwise multiplication on anisotropic Bessel potential spaces. **89c:42022**

Phillips, Keith *see* **Daly, James E., 89k:42016**

Seeger, Andreas A limit case of the Hörmander multiplier theorem. **89h:42021**

— Some inequalities for singular convolution operators in L^p-spaces. **89j:42015**

Stepanov, V. D. Multipliers of Fourier integrals generated by characteristic functions of sets. **89j:42016**

Trebels, W. *see* **Dappa, H., 89c:42022**

Items with secondary classifications in 42B15

Bourgain, J. On dimension free maximal inequalities for convex symmetric bodies in $\mathbf{R}^n$. **89g:42032**

Carbery, Anthony Differentiation in lacunary directions and an extension of the Marcinkiewicz multiplier theorem. (French summary) **89h:42026**

König, Hermann Vector-valued multiplier theorems. **89i:42031**

Meaney, C. On the transference theorem of Coifman and Weiss. **89i:43002**

Mizuhara, Takahiro On Fourier multipliers of homogeneous Besov spaces. **89f:46075**

Oberlin, Daniel M. Multilinear convolutions defined by measures on spheres. **89g:42023**

Peng, Li Zhong Hankel operators on the Paley-Wiener space in $\mathbf{R}^d$. **89i:47046**

Schmeisser, H.-J. Vector-valued Sobolev and Besov spaces. **89h:46053**

Sickel, Winfried On pointwise multipliers in Besov-Triebel-Lizorkin spaces. **89g:46070**

Sogge, C. D. On the convergence of Riesz means on compact manifolds. **89b:35126**

Tchamitchian, P. Étude dans un cadre hilbertien des algèbres de Beurling munies d'un poids radial à croissance rapide. [Study in a Hilbertian framework of Beurling algebras equipped with a radial weight having rapid growth] **89f:43004**

(Zimmermann, F.) *see* **König, Hermann, 89i:42031**

42B20 Singular integrals (Calderón-Zygmund, etc.)

Álvarez, Josefina (*with* Milman, Mario) Vector valued inequalities for strongly singular Calderón-Zygmund operators. **89d:42025**

— (*with* Durán, R.) L^p continuity of pseudo-differential operators with discontinuous symbol. **89i:42026**

Bañuelos, Rodrigo A sharp good-λ inequality with an application to Riesz transforms. **89c:42023**

Carbery, Anthony Variants of the Calderón-Zygmund theory for L^p-spaces. **89f:42011**

Christ, Michael (*with* Journé, J.-L.) Polynomial growth estimates for multilinear singular integral operators. **89a:42024**

— Weak type (1, 1) bounds for rough operators. **89m:42013**

David, Guy René Opérateurs de Calderón-Zygmund. [Calderón-Zygmund operators] **89f:42012**

— Opérateurs d'intégrale singulière sur les surfaces régulières. [Singular integral operators on regular surfaces] **89m:42014**

Durán, R. *see* **Álvarez, Josefina, 89i:42026**

Han, Yong Sheng On some properties of the s-function and the Marcinkiewicz integral. (Chinese. English summary) **89g:42029**

Hofmann, Steve Weak (1, 1) boundedness of singular integrals with nonsmooth kernel. **89f:42013**

Iwaniec, Tadeusz Hilbert transform in the complex plane and area inequalities for certain quadratic differentials. **89a:42025**

Journé, J.-L. *see* **Christ, Michael, 89a:42024**

Kurtz, Douglas S. Better good λ inequalities. **89d:42026**

Lai, Qin Sheng The weighted #-operator and maximal operator on spaces of homogeneous type. (Chinese) **89b:42013**

Milman, Mario *see* **Álvarez, Josefina, 89d:42025**

Müller, Detlef Horst Singular integrals supported by submanifolds. (Italian summary) **89i:42027**

Prestini, Elena Singular integrals on product spaces with variable coefficients. **89d:42027**

Ricci, Fulvio (*with* Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. II. Singular kernels supported on submanifolds. **89g:42030**

Semmes, Stephen W. A criterion for the boundedness of singular integrals on hypersurfaces. **89k:42017**

Sjölin, Per Oscillatory singular integrals. **89e:42014**

Stein, E. M. Problems in harmonic analysis related to curvature and oscillatory integrals. **89d:42028**

— *see also* **Ricci, Fulvio, 89g:42030**

Wainger, Stephen Averages and singular integrals over lower-dimensional sets. **89a:42026**

Wang, Kun Yang Approximation behavior of a class of singular integral operators. (Chinese. English summary) **89g:42031**

Wu, Hao Sheng A method for the exact calculation of a class of singular integrals in higher dimensions. (Chinese) **89k:42018**

Zhu, Xue Xian Singular integrals on the space $H_0^1(\mathbf{R}_+^2 \times \mathbf{R}_+^2)$. (Chinese. English summary) **89m:42015**

Items with secondary classifications in 42B20

Abdullaeva, R. A. *see* **Babaev, R. M.**, (**89c:00016**)

de Abreu G., José Radial estimates of H^1 functions and refinements of theorems of Montel and Ostrowski-Khinchin. (Spanish. English summary) **89i:30042**

Andersen, K. F. Weighted norm inequalities for Bochner-Riesz spherical summation multipliers. **89i:42025**

Babaev, R. M. (*with* Abdullaeva, R. A.) The order of approximation of singular integrals in the sense of the Hadamard finite part. (Russian) (*see* **89c:00016**)

Bakry, Dominique Transformations de Riesz pour les semi-groupes symétriques. I. Étude de la dimension 1. [Riesz transforms for symmetric semigroups. I. Study of dimension 1] **89h:42022**

— Transformations de Riesz pour les semi-groupes symétriques. II. Étude sous la condition $\Gamma_2 \geq 0$. [Riesz transforms for symmetric semigroups. II. Study under the condition $\Gamma_2 \geq 0$] **89h:42023**

— Une remarque sur les inégalités de Littlewood-Paley sous l'hypothèse $\Gamma_2 \geq 0$. [A remark on Littlewood-Paley inequalities under the condition $\Gamma_2 \geq 0$] **89h:42025**

— Correction: "Riesz transforms for symmetric semigroups. II. Study under the condition $\Gamma_2 \geq 0$" [in *Séminaire de probabilités, XIX, 1983/84*, 145–174, Lecture Notes in Math., 1123, Springer, Berlin, 1985; MR 89h:42023]. (French) **89h:42024**

Bustamante González, Jorge *see* **González Diéguez, Belarmino, 89c:30106**

Daly, James E. (*with* Phillips, Keith) On the classification of homogeneous multipliers bounded on $H^1(\mathbf{R}^2)$. **89k:42016**

Deng, Dong Gao Boundedness of singular integral operators. (Chinese. English summary) **89g:47064**

González Diéguez, Belarmino (*with* Bustamante González, Jorge) Some properties of the singular integral of Cauchy type. (Spanish. English summary) **89c:30106**

Igari, Satoru Interpolation of operators in Lebesgue spaces with mixed norm and its applications to Fourier analysis. **89d:46031**

Janson, Svante (*with* Peetre, Jaak) Paracommutators—boundedness and Schatten-von Neumann properties. **89g:47034**

Juberg, R. K. Certain singular integral operators revisited. **89f:47077**

McIntosh, Alan G. R. Clifford algebras and the double-layer potential operator. **89g:30089**

Murray, Margaret A. M. Multilinear singular integrals involving a derivative of fractional order. **89g:42020**

Päivärinta, Lassi (*with* Somersalo, E.) A generalization of the Calderón-Vaillancourt theorem to L^p and h^p. **89m:46043**

Peetre, Jaak *see* **Janson, Svante, 89g:47034**

Peng, Li Zhong Hankel operators on the Paley-Wiener space in $\mathbf{R}^d$. **89i:47046**

Phillips, Keith *see* **Daly, James E., 89k:42016**

Pisier, Gilles Riesz transforms: a simpler analytic proof of P.-A. Meyer's inequality. **89m:60178**

Prestini, Elena L^2 boundedness of highly oscillatory integrals on product domains. **89k:47082**

Somersalo, E. *see* **Päivärinta, Lassi, 89m:46043**

Tomić, Miloš Sur le problème de saturation des intégrales singulières dans un espace de fonctions. [The saturation problem for singular integrals in a function space] **89k:41030**

Yabuta, Kôzô Singular integral operators on Triebel-Lizorkin spaces. **89g:47071**

42B25 Maximal functions, Littlewood-Paley theory

Bakry, Dominique Transformations de Riesz pour les semi-groupes symétriques. I. Étude de la dimension 1. [Riesz transforms for symmetric semigroups. I. Study of dimension 1] **89h:42022**

— Transformations de Riesz pour les semi-groupes symétriques. II. Étude sous la condition $\Gamma_2 \geq 0$. [Riesz transforms for symmetric semigroups. II. Study under the condition $\Gamma_2 \geq 0$] **89h:42023**

— Une remarque sur les inégalités de Littlewood-Paley sous l'hypothèse $\Gamma_2 \geq 0$. [A remark on Littlewood-Paley inequalities under the condition $\Gamma_2 \geq 0$] **89h:42025**

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Bañuelos, Rodrigo (*with* Klemes, Ivo; Moore, Charles N.) An analogue for harmonic functions of Kolmogorov's law of the iterated logarithm. **89k:42019**

Bourgain, J. On dimension free maximal inequalities for convex symmetric bodies in $\mathbf{R}^n$. **89g:42032**

Brothers, John E. (*with* Ziemer, William P.) Minimal rearrangements of Sobolev functions. **89m:42016**

Bruna, Joaquim (*with* Korenblum, Boris) On Kolmogorov's theorem, the Hardy-Littlewood maximal function and the radial maximal function. **89k:42020**

Capri, O. N. (*with* Fava, N. A.) A generalization of Yano's extrapolation theorem. **89i:42028**

Carbery, Anthony Differentiation in lacunary directions and an extension of the Marcinkiewicz multiplier theorem. (French summary) **89h:42026**

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42C05 Orthogonal functions and polynomials, general theory [see also 33A65]

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— (*with* Saff, E. B.) ★ Strong asymptotics for extremal polynomials associated with weights on $\mathbf{R}$. **89m:41013**

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Thakare, N. K. (*with* Madhekar, H. C.) A pair of biorthogonal polynomials for the Szegő-Hermite weight function. **89k:33013**

Van Assche, Walter *see* **Geronimo, J. S.; et al., 89j:15017**

Vetrov, L. G. Bilinear expansions of two-dimensional probability densities in orthogonal polynomials. (Russian) **89g:60062**

Withers, Wm. Douglas *see* **Hoffman, Michael E., 89m:33017**

42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)

Baĭarstanova, A. S. On Fourier-Walsh series. (Russian) (*see* **89a:00016**)

Bloom, Walter R. (*with* Fournier, John J. F.) Smoothness conditions and integrability theorems on bounded Vilenkin groups. **89d:42032**

Borm, G. F. p-adic Fourier transforms. **89f:42023**

Bryl′kov, A. N. Sets of points of unbounded divergence of Haar series. **89i:42038**

Bugadze, V. M. Absolute convergence almost everywhere of a Fourier-Haar series of the superposition of functions. (Russian) (*see* **89j:00036**)

— Effect of the change of variable on the convergence and absolute convergence of a Fourier Haar series. (Russian. English and Georgian summaries) **89g:42042**

Cao, Xiang Yan The p-adic differentiability of Walsh series. (Chinese. English summary) **89m:42022**

Efimov, Aleksandr Vasilevich *see* **Golubov, B. I.; et al., 89h:42031**

Èpremidze, L. N. Convergence of Fourier-Walsh series in the space L. (Russian. English and Georgian summaries) **89m:42023**

Fournier, John J. F. *see* **Bloom, Walter R., 89d:42032**

Gevorkyan, G. G. Sets of uniqueness with respect to classes l_p, $p < 2$, for Ciesielski systems. (Russian. Armenian summary) **89d:42033**

Glukhov, V. A. A comparison of (C, α) means, and a condition for Nikol′skiĭ-type summability of Fourier series in multiplicative systems. (Russian) (*see* **89j:00036**)

Golubov, B. I. (*with* Efimov, Aleksandr Vasilevich; Skvortsov, V. A.) ★ Ряды и преобразования Уолша. (Russian) [Walsh series and transforms] **89h:42031**

Grubb, D. J. Summation methods and uniqueness in Vilenkin groups. **89b:42019**

Ivanov, V. I. Approximation in L_p by polynomials in a Walsh system. **89f:42024**

Khare, Satya Prakash (*with* Tripathi, Surendra Kumar) Logarithmic summability of ultraspherical series. (Hindi. English summary) **89c:42031**

Kheladze, Sh. V. Divergence of Fourier series in general multiplicative systems. (Russian) **89a:42037**

Kowalski, T. Some properties of partial sums of Fourier-Walsh-Paley series. (Russian. English summary) **89i:42039**

Kvernadze, G. A. Uniform convergence of Fourier-Legendre series. (Russian. English and Georgian summaries) **89f:42025**

— Absolute convergence of Fourier-Legendre series. (Russian. English and Georgian summaries) **89k:42027**

Lemarie, Pierre Gilles Ondelettes à localisation exponentielle. (English summary) [Ondelettes with exponential localization] **89m:42024**

Levizov, S. V. Lacunary series with respect to periodic multiplicative systems. **89k:42028**

Lukomskiĭ, S. F. Absolute convergence of multiple Walsh series. **89i:42040**

Meyer, Yves Ondelettes et fonctions splines. [Wavelets and spline functions] **89j:42020**

Osipov, V. B. (*with* Sadovskaya, O. B.; Semënov, E. M.) Two-sided estimates for the Fourier-Haar multipliers. (Russian) **89d:42034**

Pogosyan, N. B. Summability to $+\infty$ of series in Haar subsystems. **89h:42032**

Pospelov, A. S. The eigenfunctions of multiplicative Fourier transforms. (Russian) **89h:42033**

Qu, C. K. (*with* Wong, Roderick) Szegő's conjecture on Lebesgue constants for Legendre series. **89m:42025**

Riad, Rafat On the conjugate of the Walsh series. **89i:42041**

Sadovskaya, O. B. *see* **Osipov, V. B.; et al., 89d:42034**

Semënov, E. M. *see* **Osipov, V. B.; et al., 89d:42034**

Simon, Péter Strong convergence of certain means with respect to the Walsh-Fourier series. **89b:42020**

Skvortsov, V. A. A condition for the uniform convergence of Fourier-Walsh series. (Russian) (*see* **89j:00035**)

— An analogue of the Névai test for Fourier-Walsh series. (Russian) **89h:42034**

— *see also* **Golubov, B. I.; et al., 89h:42031**

Su, Wei Yi *see* **Zheng, Wei Xing, 89g:42043**

Taberski, Roman Quantitative versions of L. C. Young criteria for Fourier-Bessel series. **89j:42021**

Tripathi, Surendra Kumar *see* **Khare, Satya Prakash, 89c:42031**

Tsutserova, N. I. On $(C, 1)$-summability of Fourier series in a multiplicative system of functions. **89m:42026**

Vlasova, E. A. Convergence of series with respect to generalized Haar systems. (Russian summary) **89b:42021**

Wade, W. R. A growth estimate for Cesàro partial sums of multiple Walsh-Fourier series. **89f:42026**

Wong, Roderick *see* **Qu, C. K., 89m:42025**

Zerekidze, T. Sh. On the question of the interrelation between the strong differentiability of integrals and the convergence of multiple Fourier-Haar series. (Russian) **89a:42038**

Zheng, Wei Xing (*with* Su, Wei Yi) The logical derivatives and integrals. II. (Chinese summary) **89g:42043**

Zotikov, S. V. Rate of decrease of the Fourier-Haar transform. (Russian) (*see* **89c:00006**)

— The Fourier-Haar transform and Fourier-Haar integral in the space L_2. (Russian) **89d:42035**

Items with secondary classifications in 42C10

Agaev, M. A. The saturation class of modified typical Zygmund means of Fourier-Legendre series. (Russian) (*see* **89f:00013**)

Bakhshetsyan, A. V. Means for centered systems of functions. (Russian) **89k:42023**

Burkholder, Donald L. A proof of Pełczyński's conjecture for the Haar system. **89j:46026**

Coifman, Ronald R. (*with* Murray, Margaret A. M.) Uniform analyticity of orthogonal projections. **89j:42001**

Długosz, Jolanta Convolution operators on groups and multiplier theorems for Hermite and Laguerre expansions. **89e:43010**

Fitouhi, Ahmed Inégalité de Babenko et inégalité logarithmique de Sobolev pour l'opérateur de Bessel. (English summary) [Babenko inequality and logarithmic Sobolev inequality for the Bessel operator] **89a:44009**

Janušauskas, Algimantas Summation by the Abel method of series of orthogonal polynomials. (Russian. English and Georgian summaries) **89d:33017**

Meaney, C. Regularity of mean-values. **89j:43011**

Mishra, K. N. *see* **Tripathi, L. M., 89g:40012**

Murray, Margaret A. M. *see* **Coifman, Ronald R., 89j:42001**

Mushegyan, G. M. (*with* Saakyan, A. A.) Uniqueness of an everywhere convergent rearranged series in a trigonometric system and in orthonormal bases of the space $C(0,1)$. (Russian. English and Armenian summaries) **89g:42048**

— Uniqueness of an everywhere convergent rearranged orthogonal series. **89g:42047**

Naĭko, D. A. Approximation of derivatives by certain combinations of operators of class B. (Russian) **89f:41028**

Rempulska, Lucyna Some properties of summability methods of the Abel type. II. **89b:42006**

Saakyan, A. A. *see* **Mushegyan, G. M., 89g:42048**

Sulaiman, W. T. Multipliers for $|C,1|$ summability of Jacobi series. **89c:42011**

Tīman, M. F. (*with* Tukhliev, K.) Approximation of functions by the arithmetic means of partial sums of a Fourier-Walsh series. (Russian. Tajiki summary) **89k:42003**

Tripathi, L. M. (*with* Mishra, K. N.) On the uniform harmonic summability of Legendre series. (Turkish summary) **89g:40012**

Tukhliev, K. *see* **Tīman, M. F., 89k:42003**

Zink, Robert E. The Franklin system as Schauder basis for $L^p_\mu[0,1]$. **89d:46035**

42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions

Badkov, V. M. Two-sided estimates for the Lebesgue function and the remainder of a Fourier series with respect to orthogonal polynomials. (Russian) **89h:42035**

Beckner, William A generalized Poincaré inequality for Gaussian measures. **89m:42027**

Benzinger, Harold E. A generalization of nonharmonic Fourier series. **89j:42022**

Bespalov, M. S. Some applications of multiplicative systems of functions. (Russian) (*see* **89j:00036**)

Efimov, Aleksandr Vasilevich (*with* Pospelov, A. S.) Some properties of multiplicative Fourier transforms and their applications. (Russian) **89m:42028**

Getsadze, R. D. On the Saks singularity for general multiple orthogonal Fourier series. (Russian. English and Georgian summaries) **89b:42022**

Henrich, Wolfgang Absolute und starke Summierbarkeit von Orthogonalreihen mit Hausdorff-Verfahren. [Absolute and strong summability of orthogonal series by Hausdorff methods] **89g:42044**

Kazakova, N. M. Orders of Lebesgue constants of Fourier-Jacobi sums in the spaces $(QL)^2$. (Russian) (*see* **89j:00036**)

Mhaskar, H. N. A quantitative Dirichlet-Jordan type theorem for orthogonal polynomial expansions. **89g:42045**

Móricz, F. Strong approximation by rectangular partial sums of double orthogonal series. (Russian summary) **89a:42039**

Osilenker, B. P. A generalized shift operator and convolution structure for orthogonal polynomials. **89g:42046**

Pospelov, A. S. *see* **Efimov, Aleksandr Vasilevich, 89m:42028**

Items with secondary classifications in 42C15

Boyadzhiev, L. I. On a theorem of V. F. Cowling for series on Laguerre polynomials. **89e:33015**

Christ, Michael (*with* Sogge, C. D.) On the L^1 behavior of eigenfunction expansions and singular integral operators. **89k:42024**

Cohen, Joel M. Bounded spherical functions for abstract operators. **89j:43012**

Gaposhkin, V. F. Summation of weakly dependent sequences by Cesàro methods. (Russian summary) **89c:40009**

Grigoryan, M. D. Expansion in a system of Takenaka-Malmquist rational fractions in Orlicz spaces. (Russian. Armenian summary) (Not in MR)

Hendriksen, E. A characterization of classical orthogonal Laurent polynomials. **89h:33014**

Kida, Takuro The optimum interpolatory approximation of waves using time limited interpolation functions. **89m:94006**

Kon, M. A. (*with* Raphael, Louise; Young, J. E.) On relating generalized expansions to Fourier integrals. **89g:35083**

Krimmer, Wolfgang (*with* Mennicken, Reinhard) ★ Entwicklungen analytischer Funktionen nach Eigenlösungen im Parameter nichtlinearer Differentialgleichungen. (German) [Expansions of analytic functions in eigensolutions in the parameter of nonlinear differential equations] **89c:34008**

Mennicken, Reinhard *see* **Krimmer, Wolfgang, 89c:34008**

Naĭko, D. A. Approximation of derivatives by certain combinations of operators of class B. (Russian) **89f:41028**

Nillsen, Rodney Piecewise linear functions and series expansions in terms of Dirichlet and Fejér kernels. (*see* **89b:00024**)

Obata, Nobuaki A note on certain permutation groups in the infinite-dimensional rotation group. **89c:11020**

Raphael, Louise *see* **Kon, M. A.; et al., 89g:35083**

Rüschendorf, L. On symmetric functions of k variables. **89i:41031**

Sogge, C. D. *see* **Christ, Michael, 89k:42024**

Vlasova, E. A. A class of orthogonal systems of convergence. **89i:42037**

Young, J. E. *see* **Kon, M. A.; et al., 89g:35083**

42C20 Rearrangements and other transformations of Fourier and other orthogonal series

Mushegyan, G. M. (*with* Saakyan, A. A.) Uniqueness of an everywhere convergent rearranged series in a trigonometric system and in orthonormal bases of the space $C(0,1)$. (Russian. English and Armenian summaries) **89g:42048**

— Uniqueness of an everywhere convergent rearranged orthogonal series. **89g:42047**

Saakyan, A. A. *see* **Mushegyan, G. M., 89g:42048**

Items with secondary classifications in 42C20

Efimov, Aleksandr Vasilevich (*with* Pospelov, A. S.) Some properties of multiplicative Fourier transforms and their applications. (Russian) **89m:42028**

Kazaryan, K. S. Summability of generalized Fourier series and Dirichlet's problem in $L^p(d\mu)$ and weighted H^p-spaces $(p>1)$. (Russian summary) **89b:42023**

Pospelov, A. S. *see* **Efimov, Aleksandr Vasilevich, 89m:42028**

42C25 Uniqueness and localization for orthogonal series

Items with secondary classifications in 42C25

Mushegyan, G. M. (*with* Saakyan, A. A.) Uniqueness of an everywhere convergent rearranged series in a trigonometric system and in orthonormal bases of the space $C(0,1)$. (Russian. English and Armenian summaries) **89g:42048**

— Uniqueness of an everywhere convergent rearranged orthogonal series. **89g:42047**

Saakyan, A. A. *see* **Mushegyan, G. M., 89g:42048**

42C30 Completeness of sets of functions

Ibragimov, F. I. *see* **Ibragimov, I. I., 89g:42049**

Ibragimov, I. I. (*with* Ibragimov, F. I.) Multiple completeness in the mean, in the sense of M. V. Keldysh, of a function of a real variable. (Russian. English and Azerbaijani summaries) **89g:42049**

Kazaryan, K. S. Summability of generalized Fourier series and Dirichlet's problem in $L^p(d\mu)$ and weighted H^p-spaces $(p>1)$. (Russian summary) **89b:42023**

Tkebuchava, G. E. Multiple systems of functions in Orlicz spaces. (Russian. English and Georgian summaries) **89h:42036**

42C99 None of the above, but in this section

Items with secondary classifications in 42C99

Globevnik, Josip Testing analyticity on rotation invariant families of curves. **89g:30078**

Jørgensen, Palle E. T. (*with* Pedersen, Steen) Harmonic analysis on tori. **89e:22010**

Kheĭfets, A. Ya. The Parseval equality in an abstract problem of interpolation, and the union of open systems. I. (Russian) **89k:47015**

Markett, C. (*with* Rosenblum, M.; Rovnyak, J.) A Plancherel theory for Newton spaces. **89a:30038**

Mauduit, Christian (*with* Mossé, Brigitte) Étude spectrale de la multiplication q-adique. (English summary) [Spectral study of q-adic multiplication] **89g:11068**

Mermin, N. David *see* **Rokhsar, Daniel S.; et al., 89g:20080** *and* **89g:20081**

Mossé, Brigitte *see* **Mauduit, Christian, 89g:11068**

Pedersen, Steen *see* **Jørgensen, Palle E. T., 89e:22010**

Rokhsar, Daniel S. (*with* Wright, David C.; Mermin, N. David) The two-dimensional quasicrystallographic space groups with rotational symmetries less than 23-fold. **89g:20080**

— (*with* Wright, David C.; Mermin, N. David) Scale equivalence of quasicrystallographic space groups. **89g:20081**

Rosenblum, M. *see* **Markett, C.; et al., 89a:30038**

Rovnyak, J. *see* **Markett, C.; et al., 89a:30038**

Wright, David C. *see* **Rokhsar, Daniel S.; et al., 89g:20080** *and* **89g:20081**

43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–01 Elementary exposition; textbooks

Items with secondary classifications in 43–01

Gvishiani, A. D. *see* **Kirillov, A. A., 89j:46001**

Kirillov, A. A. (*with* Gvishiani, A. D.) ★ Теоремы и задачи функционального анализа. (Russian) [Theorems and problems of functional analysis] **89j:46001**

43–02 Advanced exposition (research surveys, monographs, etc.)

(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89h:43001**

Items listed otherwise than by author

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 25. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 25] **89h:43001**

Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 25. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 25] **89h:43001**

Items with secondary classifications in 43–02

Helgason, Sigurdur ★ Группы и геометрический анализ. (Russian) [Groups and geometric analysis] **89g:22014**
(Kuchment, P. A.) *see* **Helgason, Sigurdur, 89g:22014**
Terras, Audrey ★ Harmonic analysis and symmetric spaces and applications. II. **89k:22017**

43–06 Proceedings, conferences, etc.

(Eymard, Pierre) *see* **Harmonic analysis, 89f:43001**
(Pier, Jean-Paul) *see* **Harmonic analysis, 89f:43001**

Items listed otherwise than by author

Harmonic analysis ★ Harmonic analysis. **89f:43001**
Lecture Notes in Mathematics ★ Harmonic analysis. **89f:43001**
Luxembourg ★ Harmonic analysis. **89f:43001**
Symposium:
  Harmonic Analysis ★ Harmonic analysis. **89f:43001**

Items with secondary classifications in 43–06

(Cowling, Michael) *see* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**
(Meaney, C.) *see* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**
(Moran, William) *see* **Miniconference: Harmonic Analysis and Operator Algebras, 89b:00024**

Items listed otherwise than by author

Canberra ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**
Miniconference:
  Harmonic Analysis and Operator Algebras ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**

43A05 Measures on groups, semigroups, etc.

Christensen, Jens Peter Reus (*with* Fischer, Pal) Small sets and a class of general functional equations. **89f:43002**
Dani, S. G. (*with* McCrudden, M.) Factors, roots and embeddability of measures on Lie groups. **89j:43001**
Fischer, Pal *see* **Christensen, Jens Peter Reus, 89f:43002**
Host, Bernard (*with* Parreau, François) Sur une notion de pureté pour les mesures. (English summary) [On a notion of purity for measures] **89a:43001**
Kharaghani, H. The convolution of Radon measures. **89h:43002**
McCrudden, M. *see* **Dani, S. G., 89j:43001**
Mirotin, A. R. Invariant measures in commutative topological semigroups. **89h:43003**
Parreau, François *see* **Host, Bernard, 89a:43001**
Székely, Gábor J. Haar measure on semigroups. **89a:43002**

Items with secondary classifications in 43A05

Aiena, Pietro Riesz multipliers on $L_1(G)$. **89f:43005**
Bloom, Walter R. (*with* Heyer, Herbert) Continuity of convolution semigroups on hypergroups. **89j:60012**
Brown, Gavin Some inequalities that arise in measure theory. **89d:26019**
Byczkowska, H. (*with* Byczkowski, T.) Zero-one law for subgroups of paths of group-valued stochastic processes. **89g:60022**
Byczkowski, T. *see* **Byczkowska, H., 89g:60022**
Gebuhrer, Olivier Algèbres de Banach commutatives de mesures de Radon bornées et théorèmes ergodiques de type L^1. (English summary) [Commutative Banach algebras of bounded Radon measures and ergodic theorems of L^1-type] **89a:46108**
Heyer, Herbert *see* **Bloom, Walter R., 89j:60012**
Kalina, Martin The central limit theorem on compact commutative groups. **89m:60025**
Kaniuth, Eberhard On topological Frobenius reciprocity for locally compact groups. **89d:22002**
Kechris, Alexander S. (*with* Lyons, Russell) Ordinal rankings on measures annihilating thin sets. **89m:43013**
Kirtadze, A. P. (*with* Pantsulaya, G. R.) The property of essential uniqueness of invariant measures in vector spaces. (Russian. English and Georgian summaries) **89f:28029**
Kuhn, Gabriella Some more examples of Plancherel measures on discrete groups. (Italian summary) **89g:22007**
Lo, James Ting Ho (*with* Ng, Sze Kui) Characterizing Fourier series representation of probability distributions on compact Lie groups. **89e:43019**
Lyons, Russell *see* **Kechris, Alexander S., 89m:43013**
Matúš, František Discrete marginal problem for complex measures. **89b:60024**
Ng, Sze Kui *see* **Lo, James Ting Ho, 89e:43019**
Pantsulaya, G. R. *see* **Kirtadze, A. P., 89f:28029**
Pelc, Andrzej Invariant measures on abelian metric groups. **89e:28015**
Raugi, Albert Un théorème de Choquet-Deny pour les groupes moyennables. (English summary) [A Choquet-Deny theorem for amenable groups] **89f:60012**
Ressel, Paul Integral representations on convex semigroups. **89e:43012**
Siebert, E. Decomposition of convolution semigroups on Polish groups and zero-one laws. **89b:60173**
Soundararajan, T. On inner and outer regular Haar measure in locally compact groups. **89f:28031**
Varopoulos, Nicholas Th. Convolution powers on locally compact groups. (French summary) **89h:60017**

43A07 Means on groups, semigroups, etc.

Ayyaswamy, S. K. A characterization of the supports of right introversion invariant means. **89m:43001**
Dzinotyiweyi, Heneri A. M. The cardinality of the set of left invariant means on topological semigroups. **89e:43001**
Forrest, Brian Amenability and derivations of the Fourier algebra. **89c:43001**
Gerl, Peter Amenable groups and amenable graphs. **89k:43001**
Krasa, Stefan The action of a solvable group on an infinite set never has a unique invarian mean. **89a:43003**
Lau, A. T. (*with* Wong, James C. S.) Finite-dimensional invariant subspaces for measura semigroups of linear operators. **89c:43006**
Losert, Viktor (*with* Rindler, H.) Conjugation-invariant means. **89d:43001**
Rindler, H. *see* **Losert, Viktor, 89d:43001**
Sakai, Koukichi On amenable inverse semigroups. **89k:43002**
Wong, James C. S. *see* **Lau, A. T., 89c:43006**
Wysoczański, Janusz On uniformly amenable groups. **89h:43004**
Yang, Zhuocheng On the set of invariant means. **89e:43002**
Yuan, Chuan Kuan The existence of inner invariant means on $L^\infty(G)$. **89g:43001**

Items with secondary classifications in 43A07

Anantharaman-Delaroche, Claire Systèmes dynamiques non commutatifs et moyennabilit [Noncommutative dynamical systems and amenability] **89f:46127**
Grønbæk, Niels Amenability of weighted discrete convolution algebras on cancellative semigroups. **89k:43004**
Hušek, M. (*with* de Vries, Jan) A note on compactifications of products of semigroups. **89m:22002**
Lau, A. T. (*with* Paterson, Alan L. T.) Operator theoretic characterizations of $[IN]$-group and inner amenability. **89f:43003**
Paterson, Alan L. T. *see* **Lau, A. T., 89f:43003**
de Vries, Jan *see* **Hušek, M., 89m:22002**

43A10 Measure algebras on groups, semigroups, etc.

Connett, William C. (*with* Schwartz, Alan L.) A Hardy-Littlewood maximal inequality fo Jacobi type hypergroups. **89m:43002**
Kim, Jin Bai A class of convolution algebras on compact fuzzy semigroups. **89e:43003**
Lang, W. Christopher The structure of hypergroup measure algebras. **89m:43003**
Lau, A. T. (*with* Mah, Peter F.) Normal structure in dual Banach spaces associated with a locally compact group. **89e:43004**
Mah, Peter F. *see* **Lau, A. T., 89e:43004**
Schwartz, Alan L. Classification of one-dimensional hypergroups. **89m:43004a**
— Correction to: "Classification of one-dimensional hypergroups" [Proc. Amer. Math. Soc 103 (1988), no. 4, 1073–1081]. **89m:43004b**
— *see also* **Connett, William C., 89m:43002**

Items with secondary classifications in 43A10

Brown, Gavin Some inequalities that arise in measure theory. **89d:26019**
El-Shazly, M. S. *see* **Okb El-Bab, A. S., 89f:43007**
Haight, J. A. An F_σ semigroup of zero measure which contains a translate of every countable set. **89b:11014**
Host, Bernard (*with* Parreau, François) Sur une notion de pureté pour les mesures. (Engli summary) [On a notion of purity for measures] **89a:43001**
Okb El-Bab, A. S. (*with* El-Shazly, M. S.) Characterization of convolution semigroups. **89f:43007**
Parreau, François *see* **Host, Bernard, 89a:43001**
Vogel, Matthias Harmonic analysis and spectral synthesis in central hypergroups. **89j:43002**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Bloom, Lynette M. (*with* Bloom, Walter R.) Multipliers on spaces of functions with p-summable Fourier transforms. **89m:43005**
Bloom, Walter R. *see* **Bloom, Lynette M., 89m:43005**
Brummelhuis, R. G. M. An F. and M. Riesz theorem for bounded symmetric domains. (French summary) **89c:43002**
Feichtinger, Hans G. (*with* Schachermayer, W.) Local nonfactorization of functions on locally compact groups. **89c:43003**
— Minimal Banach spaces and atomic representations. **89e:43005**
Krawczyk, Jarosław The translation invariant uniform approximation property for compa groups. **89m:43006**
Lau, A. T. (*with* Paterson, Alan L. T.) Operator theoretic characterizations of $[IN]$-group and inner amenability. **89f:43003**
Nebbia, Claudio Groups of isometries of a tree and the Kunze-Stein phenomenon. **89h:43005**
Nillsen, Rodney Group actions and direct sum decompositions of L^p spaces. **89m:43007**
Paterson, Alan L. T. *see* **Lau, A. T., 89f:43003**
Pełczyński, A. Commensurate sequences of characters. **89m:43008**
Quek, T. S. (*with* Yap, Leonard Y. H.) A test for membership in Lorentz spaces and som applications. **89i:43001**
— (*with* Yap, Leonard Y. H.) Cardinal numbers connected with approximate identities in Segal algebras. **89d:43002**
Sato, Enji The restriction algebra $A(\Gamma)$ for curves $\Gamma \subset \mathbf{R}^n$. **89e:43006**
Schachermayer, W. *see* **Feichtinger, Hans G., 89c:43003**
Willis, G. A. Continuity of translation invariant linear functionals on $C_0(G)$ for certain locally compact groups G. **89c:43004**
Yap, Leonard Y. H. *see* **Quek, T. S., 89d:43002** *and* **89i:43001**

Items with secondary classifications in 43A15

Alspach, Dale E. Complemented translation-invariant subspaces. **89k:46040**
Berkson, Earl A Fourier analysis theory of abstract spectral decompositions. **89i:47026**
Bloom, Walter R. (*with* Fournier, John J. F.) Generalized Lipschitz spaces on Vilenkin groups. **89a:43013**
Bourgain, J. Vector-valued Hausdorff-Young inequalities and applications. **89m:46069**
Feichtinger, Hans G. An elementary approach to Wiener's third Tauberian theorem for th Euclidean n-space. **89i:42023**

– Banach spaces of distributions defined by decomposition methods. II. **89a:46053**
Fournier, John J. F. *see* **Bloom, Walter R., 89a:43013**
Gaudry, G. I. (*with* Ricker, Werner) Spectral properties of translation operators in certain function spaces. **89f:47047**
Hogan, Jeffrey A. Weighted norm inequalities for the Fourier transform on connected locally compact groups. **89c:43009**
Kluvánek, Igor Scalar operators and integration. **89j:47023**
Lau, A. T. (*with* Mah, Peter F.) Normal structure in dual Banach spaces associated with a locally compact group. **89e:43004**
Mah, Peter F. *see* **Lau, A. T., 89e:43004**
Meaney, C. Spherical functions and the Fourier algebra. (Italian summary) **89e:43023**
Ouyang, Guang Zhong Multipliers of Segal algebras $A_p(G)$. **89j:43003**
Price, John F. (*with* Sitaram, Alladi) Local uncertainty inequalities for locally compact groups. **89h:22017**
Ricker, Werner *see* **Gaudry, G. I., 89f:47047**
Sitaram, Alladi *see* **Price, John F., 89h:22017**
Xiao, Chang Bai The Littlewood-Paley functions on local fields. (Chinese. English summary) **89j:42019**

43A17 Analysis on ordered groups, H^p-theory

Kitada, Toshiyuki Multipliers on weighted Hardy spaces over certain totally disconnected groups. **89k:43003**
Koshi, Shozo Generalizations of F. and M. Riesz theorems. **89c:43005**

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Kitada, Toshiyuki H^p-multiplier theorems on certain totally disconnected groups. **89a:43011**

43A20 L^1-algebras on groups, semigroups, etc.

Emam, Magdy M. Spectral characterization of some classes of functions on abelian locally compact groups. (Arabic summary) **89h:43006**
Ghahramani, F. (*with* Lau, A. T.) Isometric isomorphisms between the second conjugate algebras of group algebras. **89e:43008**
– The group of automorphisms of $L^1(0,1)$ is connected. **89m:43009**
Grønbæk, Niels Amenability of weighted discrete convolution algebras on cancellative semigroups. **89k:43004**
Lau, A. T. (*with* Losert, Viktor) On the second conjugate algebra of $L_1(G)$ of a locally compact group. **89e:43007**
– (*with* Wong, James C. S.) Invariant subspaces for algebras of linear operators and amenable locally compact groups. **89c:43007**
– *see also* **Ghahramani, F., 89e:43008**
Leptin, Horst The structure of primitive quotients of certain group algebras. **89g:43002**
Losert, Viktor *see* **Lau, A. T., 89e:43007**
Singh, Ajit Iqbal Modern Wiener-Tauberian theorems and applications in spectral synthesis. **89g:43003**
Tchamitchian, P. Étude dans un cadre hilbertien des algèbres de Beurling munies d'un poids radial à croissance rapide. [Study in a Hilbertian framework of Beurling algebras equipped with a radial weight having rapid growth] **89f:43004**
Vogel, Matthias Harmonic analysis and spectral synthesis in central hypergroups. **89j:43002**
Wong, James C. S. *see* **Lau, A. T., 89c:43007**

Items with secondary classifications in 43A20

Barnes, Bruce A. The spectrum of integral operators on Lebesgue spaces. **89i:46065**
Carcano, Giovanna A commutativity condition for algebras of invariant functions. (Italian summary) **89h:22011**
Godefroy, G. On Riesz subsets of abelian discrete groups. **89m:43011**
Poguntke, Detlev Spectral synthesis of orbits of compact groups. **89j:43006**

43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

Aiena, Pietro Riesz multipliers on $L_1(G)$. **89f:43005**
Asmar, Nakhlé (*with* Hewitt, Edwin) Marcel Riesz's theorem on conjugate Fourier series and its descendants. **89h:43007**
Chang, Tsu Kung *see* **Lai, Han Ch'ing, 89b:43002**
De-Michele, Leonede (*with* Mauceri, Giancarlo) H^p multipliers on stratified groups. **89e:43009**
Długosz, Jolanta Convolution operators on groups and multiplier theorems for Hermite and Laguerre expansions. **89e:43010**
Gaudry, G. I. Singular integrals and maximal functions on certain Lie groups. **89b:43001**
Hare, Kathryn E. Properties and examples of (L^p, L^q) multipliers. **89m:43010**
Hartman, S. Some problems and remarks on relative multipliers. **89e:43011**
Hewitt, Edwin *see* **Asmar, Nakhlé, 89h:43007**
Lai, Han Ch'ing (*with* Chang, Tsu Kung) Translation invariant operators and multipliers of Banach-valued function spaces. **89b:43002**
Mauceri, Giancarlo *see* **De-Michele, Leonede, 89e:43009**
Meaney, C. On the transference theorem of Coifman and Weiss. **89i:43002**
Onneweer, C. W. (*with* Quek, T. S.) Multipliers on weighted L_p-spaces over locally compact Vilenkin groups. **89g:43004**
Ouyang, Guang Zhong Multipliers of Segal algebras. **89f:43006**
– Multipliers of Segal algebras $A_p(G)$. **89j:43003**
Quek, T. S. *see* **Onneweer, C. W., 89g:43004**
Tateoka, Jun H^p-Fourier multipliers on a local field. **89i:43003**
Torres de Squire, Maria L. Multipliers for amalgams and the algebra $S_0(G)$. **89h:43008**
Yu, Shu Mo The multipliers on the Banach space of vector-valued pth power integrable functions. (Chinese) **89a:43004**
– Multipliers with pseudomeasures as values. (Chinese. English summary) **89b:43003**

Items with secondary classifications in 43A22

Bloom, Lynette M. (*with* Bloom, Walter R.) Multipliers on spaces of functions with p-summable Fourier transforms. **89m:43005**
Bloom, Walter R. *see* **Bloom, Lynette M., 89m:43005**
Dhar, R. K. (*with* Vasudeva, H. L.) Characterisations of multipliers of $L_1(I, X)$. **89g:46086**
Ghahramani, F. The group of automorphisms of $L^1(0,1)$ is connected. **89m:43009**
Kitada, Toshiyuki H^p-multiplier theorems on certain totally disconnected groups. **89a:43011**
– Multipliers on weighted Hardy spaces over certain totally disconnected groups. **89k:43003**
Vasudeva, H. L. *see* **Dhar, R. K., 89g:46086**

43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

Bauch, H. F. Zum Begriff der Analytizität auf zusammenhängenden lokalkompakten Gruppen. (English and Russian summaries) [On the concept of analyticity on connected locally compact groups] **89c:43008**
Bloom, Walter R. Fourier series of local Lipschitz functions on zero-dimensional groups. **89k:43005**
Bourgain, J. A density condition for analyticity of the restriction algebra. Appendix to: "On the dichotomy problem for tensor algebras" [Trans. Amer. Math. Soc. **293** (1986), no. 2, 793–798; MR 86m:43005]. **89a:43005**
Graham, Colin C. A uniform boundedness principle for compact sets and the decay of Fourier transforms. **89d:43003a**
– (*with* Schreiber, Bertram M.) Projections in spaces of bimeasures. **89b:43004**
– Erratum to the paper: "A uniform boundedness principle for compact sets and the decay of Fourier transforms". **89d:43003b**
Hogan, Jeffrey A. A qualitative uncertainty principle for locally compact abelian groups. **89k:43006**
– Weighted norm inequalities for the Fourier transform on connected locally compact groups. **89c:43009**
Onneweer, C. W. Weak L_p-spaces and weighted norm inequalities for the Fourier transform on locally compact Vilenkin groups. **89d:43004**
Schreiber, Bertram M. *see* **Graham, Colin C., 89b:43004**
Yu, Shu Mo The Fourier transform for vector-valued functions. (Chinese) **89a:43006**

Items with secondary classifications in 43A25

Asmar, Nakhlé (*with* Hewitt, Edwin) Marcel Riesz's theorem on conjugate Fourier series and its descendants. **89h:43007**
Dehay, D. (*with* Moché, R.) Strongly harmonizing operators and strongly harmonizable approximations of continuous random fields on LCA groups. **89j:60014**
Hewitt, Edwin *see* **Asmar, Nakhlé, 89h:43007**
Moché, R. *see* **Dehay, D., 89j:60014**
Rodriguez-Piazza, Luis Analyticité des algèbres de restriction et solution du problème de la dichotomie dans le cadre des algèbres tensorielles (d'après J. Bourgain). [Analyticity of restriction algebras and solution of the dichotomy problem for tensor algebras (after J. Bourgain)] **89e:46027**
Rubio de Francia, José Luis (*with* Torrea Hernández, José Luis) Some Banach techniques in vector-valued Fourier analysis. **89g:46037**
Torrea Hernández, José Luis *see* **Rubio de Francia, José Luis, 89g:46037**

43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

Cowling, Michael (*with* Price, John F.; Sitaram, Alladi) A qualitative uncertainty principle for semisimple Lie groups. **89d:43005**
Fan, Da Shan *see* **Xie, Jia Hai,** (Not in MR)
Price, John F. (*with* Sitaram, Alladi) Local uncertainty inequalities for compact groups. **89i:43004**
– *see also* **Cowling, Michael; et al., 89d:43005**
Sitaram, Alladi *see* **Cowling, Michael; et al., 89d:43005** *and* **Price, John F., 89i:43004**
Xie, Jia Hai (*with* Fan, Da Shan) Asymptotic properties of Fourier coefficients on rotation groups. (Not in MR)

Items with secondary classifications in 43A30

Bloom, Walter R. (*with* Heyer, Herbert) Continuity of convolution semigroups on hypergroups. **89j:60012**
Denisova, G. V. Horospherical harmonics on symmetric spaces connected with the group of motions $SO(p,q)$. (Russian) **89h:22024**
Graham, Colin C. A uniform boundedness principle for compact sets and the decay of Fourier transforms. **89d:43003a**
– Erratum to the paper: "A uniform boundedness principle for compact sets and the decay of Fourier transforms". **89d:43003b**
Heyer, Herbert *see* **Bloom, Walter R., 89j:60012**
Hogan, Jeffrey A. Weighted norm inequalities for the Fourier transform on connected locally compact groups. **89c:43009**
Vol'kovich, V. È. Infinitely divisible distributions in algebras with stochastic convolution. **89j:60017**

43A32 Other transforms and operators of Fourier type

Zheng, Xue An Riesz and Bessel transformations on compact Lie groups. **89i:43005**

Items with secondary classifications in 43A32

Borm, G. F. p-adic Fourier transforms. **89f:42023**
Illusie, L. Deligne's l-adic Fourier transform. **89h:11052**
Matúš, František Discrete marginal problem for complex measures. **89b:60024**

Youssfi, El Hassan ★ Mesures de Lévy et fonctions de Lévy générales. Applications à la décomposition de Lévy-Khintchine. (French) [General Lévy measures and Lévy functions. Applications to the Lévy-Khinchin decomposition] **89g:43006**

43A35 Positive definite functions on groups, semigroups, etc.

Atanasiu, Dragu Sur les fonctions complètement définies positives. (English summary) [On completely positive definite functions] **89i:43006**
El-Shazly, M. S. *see* **Okb El-Bab, A. S., 89f:43007**
Młotkowski, Wojciech Positive definite radial functions on free product of groups. (Italian summary) **89g:43005**
Okb El-Bab, A. S. (*with* El-Shazly, M. S.) Characterization of convolution semigroups. **89f:43007**
Ressel, Paul Integral representations on convex semigroups. **89e:43012**
Sasvári, Zoltán Decomposition of positive definite functions defined on a neighbourhood of the identity. **89a:43007**
— On the extension of positive definite functions. (Serbo-Croatian summary) **89c:43010**
Stochel, Jan On the Sz.-Nagy boundedness condition on abelian involution semigroups. **89f:43008**
Youssfi, El Hassan ★ Mesures de Lévy et fonctions de Lévy générales. Applications à la décomposition de Lévy-Khintchine. (French) [General Lévy measures and Lévy functions. Applications to the Lévy-Khinchin decomposition] **89g:43006**
— Mesures de Lévy et fonctions de Lévy générales. (English summary) [General Lévy measures and Lévy functions] **89a:43008**

Items with secondary classifications in 43A35

Anantharaman-Delaroche, Claire Systèmes dynamiques non commutatifs et moyennabilité. [Noncommutative dynamical systems and amenability] **89f:46127**
Atanasiu, Dragu Le problème des moments sur des compacts de $\mathbf{R}^S$ dans le cas où S est un semi-groupe abélien avec zéro. (English summary) [The moment problem on some compacts of $\mathbf{R}^S$ in the case where S is a commutative semigroup with zero] **89a:44015**
Berg, Christian Fonctions définies négatives et majoration de Schur. [Negative definite functions and Schur majorization] **89c:31005**
— The multidimensional moment problem and semigroups. **89k:44013**
Bloom, Walter R. (*with* Heyer, Herbert) Continuity of convolution semigroups on hypergroups. **89j:60012**
Broszkiewicz, Irena A note on tensor products of semigroups of contractions. **89f:47010**
Gali, I. M. (*with* Okb El-Bab, A. S.; Saleh, M.) On positive-definite invariant matrix kernels. **89c:47025**
Heyer, Herbert *see* **Bloom, Walter R., 89j:60012**
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Shonkwiler, R. On the solution of moment problems by reproducing kernel methods. **89d:30043**
Stochel, Jan Dilatability of sesquilinear form-valued kernels. **89d:47094**
Tarieladze, V. I. On a topological description of characteristic functionals. **89a:60031**
Vol'kovich, V. È. Infinitely divisible distributions in algebras with stochastic convolution. **89j:60017**

43A40 Character groups and dual objects

Bisgaard, Torben Maack Extension of characters on *-semigroups. **89h:43009**
Graham, Colin C. (*with* Ramsey, Thomas) Three results on I-sets. **89g:43007**
— (*with* Lau, A. T.; Leinert, Michael) Separable translation-invariant subspaces of $M(G)$ and other dual spaces on locally compact groups. **89j:43004**
Lau, A. T. *see* **Graham, Colin C.; et al., 89j:43004**
Leinert, Michael *see* **Graham, Colin C.; et al., 89j:43004**
Ramsey, Thomas *see* **Graham, Colin C., 89g:43007**
Semadeni, Zbigniew Describing q-adic solenoids as maximal-ideal spaces of subalgebras of $C(\mathbf{R})$. **89a:43009**
Voit, Michael Positive characters on commutative hypergroups and some applications. **89j:43005**

Items with secondary classifications in 43A40

Asam, Lilian Translation-invariant linear forms on $\mathcal{E}'(G)$ and non-Liouville tuples on G. **89e:46044**
Vaĭnerman, L. I. The duality of algebras with involution and generalized shift operators. (Russian) **89m:46094**

43A45 Spectral synthesis on groups, semigroups, etc.

Platonov, S. S. Description of invariant subspaces in some function spaces on the group $\mathrm{SH}(n+1)$. (Russian) **89g:43008**
Poguntke, Detlev Spectral synthesis of orbits of compact groups. **89j:43006**
Weit, Yitzhak Spectral analysis in spaces of continuous functions. **89f:43009**

Items with secondary classifications in 43A45

Emam, Magdy M. Spectral characterization of some classes of functions on abelian locally compact groups. (Arabic summary) **89h:43006**
Felix, Rainer Zentrale Distributionen auf Exponentialgruppen. [Central distributions on exponential groups] **89f:22013**
Kumar, Ajay Beurling algebras and structure of locally compact groups. **89d:22003**
Singh, Ajit Iqbal Modern Wiener-Tauberian theorems and applications in spectral synthesis. **89g:43003**
Sitaram, Alladi On an analogue of the Wiener Tauberian theorem for symmetric spaces of the noncompact type. **89e:43024**
Vogel, Matthias Harmonic analysis and spectral synthesis in central hypergroups. **89j:43002**

43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

Christensen, Jens Peter Reus (*with* Fischer, Pal) Joint continuity of measurable biadditive mappings. **89d:43006**
Dooley, A. H. Central lacunary sets for Lie groups. **89j:43007**
Fischer, Pal *see* **Christensen, Jens Peter Reus, 89d:43006**
Florek, J. Existence of Sidon sets of first kind in LCA groups. **89b:43005**
— Interpolation by the Fourier-Stieltjes transform of a positive compactly supported measure. **89d:43007**
Godefroy, G. On Riesz subsets of abelian discrete groups. **89m:43011**
Hare, Kathryn E. Arithmetic properties of thin sets. **89a:43010**
— An elementary proof of a result on $\Lambda(p)$ sets. **89m:43012**
Kechris, Alexander S. (*with* Lyons, Russell) Ordinal rankings on measures annihilating thi sets. **89m:43013**
Lyons, Russell *see* **Kechris, Alexander S., 89m:43013**
Tardivel, Valérie Fermés d'unicité dans les groupes abéliens localement compacts. (English summary) [Closed sets of uniqueness in locally compact abelian groups] **89k:43007**
— Ensembles de Riesz. (English summary) [Riesz sets] **89d:43008**

Items with secondary classifications in 43A46

Bourgain, J. A density condition for analyticity of the restriction algebra. Appendix to: "O the dichotomy problem for tensor algebras" [Trans. Amer. Math. Soc. **293** (1986), no. 2, 793–798; MR 86m:43005]. **89a:43005**
— Geometry of Banach spaces and harmonic analysis. **89d:42001**
— (*with* Tzafriri, L.) Invertibility of "large" submatrices with applications to the geometry of Banach spaces and harmonic analysis. **89a:46035**
Grow, David Sidon sets and I_0-sets. **89a:42019**
Hartman, S. Some problems and remarks on relative multipliers. **89e:43011**
Lyons, Russell Errata to: "Wiener's theorem, the Radon-Nikodým theorem, and $M_0(\mathrm{T})$" [Ark. Mat. **24** (1986), no. 2, 277–282; MR 88e:42019]. **89d:42019**
Pełczyński, A. Commensurate sequences of characters. **89m:43008**
Prignot, Patrick Dichotomie du cotype pour les espaces invariants $C_\Lambda(T)$ (d'après J. Bourgain et V. Milman). [Dichotomy of the cotype for the invariant spaces $C_\Lambda(T)$ (after J. Bourgain and V. Milman)] **89d:46029**
Tzafriri, L. *see* **Bourgain, J., 89a:46035**

43A50 Convergence of Fourier series and of inverse transforms

Cartwright, Donald I. (*with* Kucharski, Krzysztof) Jackson's theorem for compact connected Lie groups. **89j:43008**
Gong, Sheng (*with* Li, Shi Xiong; Zheng, Xue An) Harmonic analysis on classical groups. **89e:43013**
Kucharski, Krzysztof *see* **Cartwright, Donald I., 89j:43008**
Li, Shi Xiong *see* **Gong, Sheng; et al., 89e:43013**
Zheng, Xue An *see* **Gong, Sheng; et al., 89e:43013**

43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Clerc, Jean-Louis Bochner-Riesz means of H^p functions $(0 < p < 1)$ on compact Lie groups. **89e:43014**
Fan, Da Shan Spherical Riesz means of Fourier series at the critical index on semisimple compact Lie groups. (Chinese. English summary) **89c:43011**
Zheng, Xue An Summation of Fourier series on compact Lie groups by cubical means; Cauchy integrals and the Dirichlet problem on complex domains R_I. (Chinese) **89m:43014**

Items with secondary classifications in 43A55

Grubb, D. J. Summation methods and uniqueness in Vilenkin groups. **89b:42019**
Mauceri, Giancarlo Maximal operators and Riesz means on stratified groups. **89j:22016**

43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Chojnacki, Wojciech Some nontrivial cocycles. **89e:43015**
Milnes, Paul Minimal and distal functions on semidirect products of groups. II. **89b:43006**
Nassar, Mostafa Weakly recurrent and almost periodic points in βG. **89f:43010**
Ruppert, W. A. F. A geometric approach to the Bohr compactification of cones. **89j:43009**
Scott, David Riley (*with* Sitaram, Alladi) Some remarks on the Pompeiu problem for groups. **89g:43009**
Sitaram, Alladi *see* **Scott, David Riley, 89g:43009**

Items with secondary classifications in 43A60

Graham, Colin C. (*with* Ramsey, Thomas) Three results on I-sets. **89g:43007**
Hušek, M. (*with* de Vries, Jan) A note on compactifications of products of semigroups. **89m:22002**
Milnes, Paul Minimal and distal functions on semidirect products of groups. **89k:22008**
Ramsey, Thomas *see* **Graham, Colin C., 89g:43007**
de Vries, Jan *see* **Hušek, M., 89m:22002**
Zaidman, S. Integration of Poisson stable functions of two variables. **89b:42011**

43A65 Representations of groups, semigroups, etc. [see also 22Dxx]

Mantero, Anna Maria (*with* Zappa, Anna) Irreducibility of the analytic continuation of the principal series of a free group. **89d:43009**
Rindler, H. Groups of measure preserving transformations. **89b:43007**

Vũ Quốc Phóng Dissipative almost periodic actions of semigroups. **89m:43015**

Zappa, Anna *see* **Mantero, Anna Maria, 89d:43009**

Items with secondary classifications in 43A65

Ber, A. F. The principle of duality for compact inverse semigroups. (Russian) **89a:22006**

Bożejko, Marek Uniformly bounded representations of free groups. **89a:22009**

Kaniuth, Eberhard Irreducible representations that cannot be separated from the trivial representation. **89h:22010**

Vũ Quốc Phóng Perron-Frobenius theory for almost periodic representations of semigroups in L_p spaces. (Russian) **89i:47080**

Youssfi, El Hassan ★ Mesures de Lévy et fonctions de Lévy générales. Applications à la décomposition de Lévy-Khintchine. (French) [General Lévy measures and Lévy functions. Applications to the Lévy-Khinchin decomposition] **89g:43006**

43A70 Analysis on specific locally compact abelian groups [see also 11R56]

Chernykh, S. I. *see* **Myasnikov, A. G., 89a:43012**

Kitada, Toshiyuki H^p-multiplier theorems on certain totally disconnected groups. **89a:43011**

Myasnikov, A. G. (*with* Chernykh, S. I.) L_p spaces with mixed norm on locally compact groups. (Russian) **89a:43012**

Zheng, Wei Xing Further on a class of approximation identity operators over local fields. **89e:43016**

Items with secondary classifications in 43A70

Efimov, Aleksandr Vasilevich (*with* Pospelov, A. S.) Some properties of multiplicative Fourier transforms and their applications. (Russian) **89m:42028**

Hogan, Jeffrey A. A qualitative uncertainty principle for locally compact abelian groups. **89k:43006**

Kitada, Toshiyuki Multipliers on weighted Hardy spaces over certain totally disconnected groups. **89k:43003**

Onneweer, C. W. (*with* Quek, T. S.) Multipliers on weighted L_p-spaces over locally compact Vilenkin groups. **89g:43004**

Pospelov, A. S. *see* **Efimov, Aleksandr Vasilevich, 89m:42028**

Quek, T. S. *see* **Onneweer, C. W., 89g:43004**

Tardivel, Valérie Fermés d'unicité dans les groupes abéliens localement compacts. (English summary) [Closed sets of uniqueness in locally compact abelian groups] **89k:43007**

Tateoka, Jun H^p-Fourier multipliers on a local field. **89i:43003**

43A75 Analysis on specific compact groups

Bloom, Walter R. (*with* Fournier, John J. F.) Generalized Lipschitz spaces on Vilenkin groups. **89a:43013**

Fournier, John J. F. *see* **Bloom, Walter R., 89a:43013**

Su, Wei Yi Kernels of Poisson type on local fields. **89j:43010**

Uno, Yoshikazu On absolute convergence of Vilenkin Fourier series. **89e:43017**

— On theorems of A. Zygmund type on absolutely convergent Vilenkin Fourier series. **89e:43018**

Items with secondary classifications in 43A75

Bloom, Walter R. (*with* Fournier, John J. F.) Smoothness conditions and integrability theorems on bounded Vilenkin groups. **89d:42032**

Dooley, A. H. Central lacunary sets for Lie groups. **89j:43007**

Efimov, Aleksandr Vasilevich *see* **Golubov, B. I.; et al., 89h:42031**

Fournier, John J. F. *see* **Bloom, Walter R., 89d:42032**

Golubov, B. I. (*with* Efimov, Aleksandr Vasilevich; Skvortsov, V. A.) ★ Ряды и преобразования Уолша. (Russian) [Walsh series and transforms] **89h:42031**

Meaney, C. On the transference theorem of Coifman and Weiss. **89i:43002**

Skvortsov, V. A. *see* **Golubov, B. I.; et al., 89h:42031**

Tsutserova, N. I. On $(C, 1)$-summability of Fourier series in a multiplicative system of functions. **89m:42026**

43A77 Analysis on general compact groups

Fan, Da Shan The uniform convergence of Riesz spherical means of Fourier series on compact Lie groups. (Chinese) **89m:43016**

Lo, James Ting Ho (*with* Ng, Sze Kui) Characterizing Fourier series representation of probability distributions on compact Lie groups. **89e:43019**

Ng, Sze Kui *see* **Lo, James Ting Ho, 89e:43019**

Zhao, He Sheng The Marcinkiewicz theorem for Fourier series on compact Lie groups. (Chinese) **89f:43011**

Items with secondary classifications in 43A77

Bloom, Lynette M. (*with* Bloom, Walter R.) Multipliers on spaces of functions with p-summable Fourier transforms. **89m:43005**

Bloom, Walter R. *see* **Bloom, Lynette M., 89m:43005**

Meda, Stefano (*with* Pini, Rita) Lipschitz spaces on compact Lie groups. **89f:46074**

Pini, Rita *see* **Meda, Stefano, 89f:46074**

Založnik, Aleš Function spaces generated by blocks associated with spheres, Lie groups and spaces of homogeneous type. **89i:43008**

Zheng, Xue An Riesz and Bessel transformations on compact Lie groups. **89i:43005**

43A80 Analysis on other specific Lie groups [see also 22E30]

Gaudry, G. I. (*with* Giulini, S.; Hulanicki, Andrzej; Mantero, Anna Maria) Hardy-Littlewood maximal functions on some solvable Lie groups. **89e:43020**

Giulini, S. *see* **Gaudry, G. I.; et al., 89e:43020**

Głowacki, Paweł An inversion problem for singular integral operators on homogeneous groups. **89e:43021**

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43A85 Analysis on homogeneous spaces

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43A90 Spherical functions [see also 22E45, 22E46]

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43A99 Miscellaneous topics

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44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}

44–00 Handbooks, dictionaries, and other reference works

(Badii, Larry) *see* **Knight, J. H., 89a:44002**
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44–01 Elementary exposition; textbooks

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44A20 Transforms of special functions

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44A99 Miscellaneous topics

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45–XX Integral equations

45–01 Elementary exposition; textbooks

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45–02 Advanced exposition (research surveys, monographs, etc.)

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45A05 Linear integral equations

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Yang, Shan *see* **Wang, Bo Yong**, (Not in MR)

Zakhariev, Andreĭ *see* **Baĭnov, D. D.; et al., 89e:45011** *and* **89i:45017**

Zhang, Bo[1] Space C_g and uniform behavior of solutions of functional differential equations with infinite delay. **89i:34101**

Zhong, Shou Guo Some problems on integral equations in L_p spaces. (Chinese) **89m:45001**

45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

Loboda, V. V. Application of the Gauss-Jacobi formula to the solution of singular integral equations. (Russian) (*see* **89f:00011**)

Mikhlin, S. G. On Tricomi's works on integral equations. **89e:45004**

Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

Akhmadiev, M. G. Direct methods for solving a singular integro-differential equation. **89e:45005**

Chakrabarti, Aloknath A tractable pair of the Cauchy singular integral equations. **89e:45006**

Chibrikova, L. I. (*with* Pleshchinskiĭ, N. B.) Integral equation with generalized power kernel and its application to the theory of boundary value problems for the generalized Tricomi equation. **89b:45005**

Cormack, Donald E. *see* **Vijayakumar, Sinnathurai, 89m:45004**

Du, Jin Yuan Some systems of orthogonal polynomials associated with singular integral equations. **89f:45004**

Dybin, V. B. One-dimensional singular integral equations with coefficients that vanish on countable sets. **89f:45005**

Dzhangibekov, G. On the Noethericity and index of a class of two-dimensional singular integral equations with discontinuous coefficients. **89k:45005**

Freidkin, S. A. The conjugation problem on an infinite set of intervals. **89d:45006**

Karapetyants, N. K. (*with* Rubin, B. S.) Integral equations of the first kind with a weak singularity with a radial right-hand side. (Russian) **89g:45010**

Khatiashvili, N. G. A system of singular integral equations. (Russian. English and Georgian summaries) **89d:45007**

Kuz′mina, G. M. Conditions for the compatibility of a certain system of singular integral equations. (Russian) **89j:45005**

Latushkin, Yu. D. (*with* Mamatov, Sh. K.) Singular integral operators with a multivalent shift and with no wandering arcs in Hölder spaces. (Russian) **89g:45011**

Lin, Yi[2] The regularization problem for singular integral equations with Carleman displacements. (Chinese. English summary) **89g:45012**

Lũ, De A class of singular integral equations on a bounded two-dimensional region. (Chinese. English summary) **89g:45013**

Mamatov, Sh. K. *see* **Latushkin, Yu. D., 89g:45011**

Meyer, Christian Näherungsverfahren für singuläre Integraloperatoren mit spezieller Carlemanscher Verschiebung. [Approximation methods for singular integral operators with special Carleman shift] **89f:45006**

Musaev, B. I. On the approximate solution of singular integral equations. (Russian) **89h:45005**

Pilidi, V. S. Uniform invertibility of regular approximations of one-dimensional singular integral operators. **89i:45007**

Pleshchinskiĭ, N. B. *see* **Chibrikova, L. I., 89b:45005**

Rubin, B. S. *see* **Karapetyants, N. K., 89g:45010**

Shelepov, V. Yu. The Noethericity of integral equations of the plane theory of elasticity in the spaces L_p, $p > 1$. (Russian. English summary) **89k:45006**

Sherman, D. I. On certain additions to the theory of one singular integral equation. **89b:45006**

Simonenko, I. B. (*with* Trinh Ngoc Minh) ★ Локальный метод в теории одномерных сингулярных интегральных уравнений с кусочно-непрерывными коэффициентами. Нетеровость. (Russian) [A local method in the theory of one-dimensional singular integral equations with piecewise continuous coefficients. Noethericity] **89h:45006**

Trinh Ngoc Minh *see* **Simonenko, I. B., 89h:45006**

Vijayakumar, Sinnathurai (*with* Cormack, Donald E.) An invariant imbedding method for singular integral evaluation on finite domains. **89m:45004**

Items with secondary classifications in 45E05

Avendan′o, R. È. (*with* Krupnik, N. Ya.) A local principle for calculating quotient norms of singular integral operators. **89h:47073**

Baburin, Yu. S. Solution in closed form of Fredholm equations of the second kind with a closed contour of integration. (Russian) **89i:45001**

Coifman, Ronald R. (*with* Murai, Takafumi) Commutators on the potential-theoretic energy spaces. **89i:42029**

Garey, L. E. (*with* Shaw, R. E.) Numerical methods and roots of the solution for singular integro-differential equations. **89i:65140**

Golberg, Michael A. A note on a superconvergence result for the generalized airfoil equation. **89f:65141**

Karlovich, Yu. I. (*with* Mardiev, R.) The one-sided invertibility of functional operators and the $n(d)$-normality of singular integral operators with shift in Hölder spaces. **89j:47022**

Kravvaritis, D. *see* **Ladopoulos, E. G.; et al., 89f:73066**

Krivoi, A. F. (*with* Popov, G. Ya.; Radiollo, M. V.) Certain problems of an arbitrarily oriented stringer in a composite anisotropic plane. **89b:73025**

Krupnik, N. Ya. *see* **Avendan′o, R. È., 89h:47073**

Kvitko, A. N. A boundary value problem with shift for a Carleman system on a Riemann surface with boundary. (Russian) **89h:30056**
Ladopoulos, E. G. On the numerical solution of the finite-part singular integral equations of the first and the second kind used in fracture mechanics. **89c:73071**
— (*with* Zisis, V. A.; Kravvaritis, D.) Singular integral equations in Hilbert space applied to crack problems. **89f:73066**
Lu, Jian Ke ★ Jiexi hanshu bianzhi wenti. (Chinese) [Boundary value problems for analytic functions] **89b:30036**
Mardiev, R. *see* **Karlovich, Yu. I., 89j:47022**
Mirianashvili, M. G. Application of a singular kernel in error estimates for the solution of some boundary value problems for close domains. (Russian. English and Georgian summaries) **89d:31007**
Murai, Takafumi *see* **Coifman, Ronald R., 89i:42029**
Nguyễn Văn Mậu A class of singular integral operators with rotation. (Russian. English summary) **89h:45011**
Pal′tsev, B. V. Canonical matrix of solutions of a linear conjugation problem with a piecewise continuous matrix coefficient on an elementary piecewise smooth curve. **89d:30049**
Parfenov, O. G. Singular numbers of a weighted convolution operator. **89g:47037**
Pasenchuk, A. È. On the Noethericity of a linear conjugation operator on a torus in a countable-Hilbert space. **89d:47046**
Popov, G. Ya. *see* **Krivoĭ, A. F.; et al., 89b:73025**
Prössdorf, S. (*with* Rathsfeld, A.) Stabilitätskriterien für Näherungsverfahren bei singulären Integralgleichungen in L^p. (English and Russian summaries) [Stability criteria for approximation methods for singular integral equations in L^p] **89b:65317**
Pyatov, V. N. (*with* Tikhonenko, N. Ya.) Asymptotic behavior of the solution of a singular integral equation with involutive shift. (Russian) **89c:45023**
Radiollo, M. V. *see* **Krivoĭ, A. F.; et al., 89b:73025**
Rathsfeld, A. *see* **Prössdorf, S., 89b:65317**
Roch, S. Finite sections of operators belonging to the closed algebra of singular integral operators. **89h:47079**
— (*with* Silbermann, Bernd) Finite sections of singular integral operators with Carleman shift. **89h:47080**
eĭchuk, V. N. A mechanical quadrature method for singular integral equations with shift on a Lyapunov curve. (Russian) **89g:65171**
haw, R. E. *see* **Garey, L. E., 89i:65140**
heshko, M. A. A direct method for solving singular integral equations with a Hilbert kernel. (Russian. English summary) **89b:65319**
ilbermann, Bernd *see* **Roch, S., 89h:47080**
pitkovskiĭ, I. M. (*with* Tishin, P. M.) Partial indices of triangular matrices of order higher than two. (Russian) **89a:15014**
— The vector Riemann boundary value problem with infinite deficient numbers and the factorization of matrix functions connected with it. **89j:30058**
heotokoglou, E. N. Modified trapezoidal quadratures and accurate potential evaluation for numerical solutions of SIEs on the unit circle. **89g:73008**
ikhonenko, N. Ya. *see* **Pyatov, V. N., 89c:45023**
ishin, P. M. *see* **Spitkovskiĭ, I. M., 89a:15014**
utunaru, S. A. *see* **Zolotarevskiĭ, V. A., 89g:65172**
ngiadze, A. V. Approximate solutions of singular integral equations with fixed singularities. (Russian) **89b:65320**
akhin, R. A. Invariant spaces of a singular integral operator. (Russian) **89i:47093**
isis, V. A. *see* **Ladopoulos, E. G.; et al., 89f:73066**
olotarevskiĭ, V. A. (*with* Tutunaru, S. A.) Some direct methods for the approximate solution of bisingular integral equations. (Russian) **89g:65172**

5E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

skhabov, S. N. (*with* Karapetyants, N. K.; Yakubov, A. Ya.) Discrete equations of convolution type with power nonlinearity. **89a:45010**
humakov, F. V. *see* **Rogozin, S. V., 89g:45017**
os Santos, A. F. (*with* Teixeira, F. S.) Theory of a class of Wiener-Hopf equations of the first kind: application to the Sommerfeld problem. **89a:45011**
ybin, V. B. The Wiener-Hopf equation with a symbol vanishing on a countable set. (Russian) **89h:45007**
The Wiener-Hopf equation with a vanishing symbol, and the limiting absorption principle. **89h:45008**
olub, A. P. Integral equations of convolution type and Padé approximants. (Russian) **89g:45014**
arapetyants, N. K. Smoothness of the solutions of equations of convolution type. (Russian) **89g:45015**
see also **Askhabov, S. N.; et al., 89a:45010**
alyaev, V. F. Power solutions of integral equations. (Russian) **89g:45016**
ogozin, S. V. (*with* Chumakov, F. V.) A generalized Carleman equation on a symmetric interval. (Russian) **89g:45017**
ixeira, F. S. *see* **Dos Santos, A. F., 89a:45011**
ssella, Sergio Stability results for Abel equation. **89c:45009**
adimirov, V. S. The Wiener-Hopf equation in the Nevanlinna and Smirnov algebras and ultra-distributions. (*see* **89i:00025**)
The Wiener-Hopf equation in Nevanlinna and Smirnov algebras. **89a:45012**
kubov, A. Ya. *see* **Askhabov, S. N.; et al., 89a:45010**

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rahams, I. D. Scattering of sound by a semi-infinite elastic plate with a soft backing; a matrix Wiener-Hopf problem. **89m:76056**
cklew, James A. (*with* Cambanis, Stamatis) Estimating random integrals from noisy observations: sampling designs and their performance. **89d:60112**
mbanis, Stamatis *see* **Bucklew, James A., 89d:60112**
ss, Raouf An elementary proof of Titchmarsh's convolution theorem. **89g:42022**
Hofmann, Bernd On the analysis of a particular Volterra-Stieltjes convolution integral equation. (German and Russian summaries) **89f:45001**
Kato, Nobuyuki Unbounded behavior and convergence of solutions of nonlinear Volterra equations in Banach spaces. **89m:45003**
Lalayan, A. S. (*with* Nersesyan, A. B.) Conditions for the solvability of a conjugation problem for a pair of piecewise analytic functions. (Russian. English and Armenian summaries) **89e:30072**
Li, Yi^3 General Wiener-Hopf operators and the application of bilateral shifts to factorization of operators. (Chinese. English summary) **89k:47041**
Litvinchuk, G. S. (*with* Spitkovskiĭ, I. M.) ★ Factorization of measurable matrix functions. **89e:47022**
McKee, Sean Volterra integral and integro-differential equations arising from problems in engineering and science. **89k:45003**
van der Mee, C. V. M. Kinetic equations with collision operators of spectral radius less than one. **89h:47016**
Moraru, N. I. A convolution integral equation of the first kind for a quarter plane. (Russian) **89k:47081**
Muradyan, A. G. *see* **Muradyan, M. G., 89g:45003**
Muradyan, M. G. (*with* Muradyan, A. G.) A linear integral equation on a half axis with a kernel $\lambda(x)K(x-t)$, where $\lambda(x)$ is a periodic function. (Russian) **89g:45003**
Nersesyan, A. B. (*with* Sadakashvili, M. G.) Noethericity of a discretized system of Wiener-Hopf integral equations. **89e:39009**
— *see also* **Lalayan, A. S., 89e:30072**
Nikol′skaya, L. N. Stability of the eigenvalues of singular integral equations. (Russian. English summary) **89c:45001**
Päivärinta, Lassi (*with* Rempel, Stephan) The deconvolution of the Newton kernel $1/|x|$ on bounded domains in the plane. **89k:78010**
Rempel, Stephan *see* **Päivärinta, Lassi, 89k:78010**
Sadakashvili, M. G. *see* **Nersesyan, A. B., 89e:39009**
Silbermann, Bernd Numerical analysis for Wiener-Hopf integral equations in spaces of measurable functions. **89f:65148**
— *see also* **Litvinchuk, G. S., 89e:47022**
Sloan, Ian H. (*with* Spence, A.) Projection methods for integral equations on the half-line. **89h:65225**
Spence, A. *see* **Sloan, Ian H., 89h:65225**
Spitkovskiĭ, I. M. *see* **Litvinchuk, G. S., 89e:47022**
Thelen-Rosemann-Niedrig, Günter On singular integro-differential operators on the halfaxis. **89a:47074**
Tian, Ai Bao On a sequential algorithm for identification of linear feedback systems via block-pulse functions. (Chinese. English summary) (Not in MR)
Yang, Gan Shan *see* **Zhang, Shi Sheng, 89i:45006**
Zhang, Shi Sheng (*with* Yang, Gan Shan) On the solution by determinantal series to Volterra integral equations of the second kind with convolution-type kernel. (Chinese. English summary) **89i:45006**

45E99 None of the above, but in this section

Abdullaev, S. K. (*with* Vasil′ev, V. V.) Some classes of multidimensional singular integral equations over a half space in a weighted Hölder scale. (Russian) **89a:45013**
Dzhangibekov, G. The Noethericity and index of a class of two-dimensional singular integral equations with discontinuous coefficients. (Russian. Tajiki summary) **89g:45018**
Gilep, A. I. Integral equations of the first kind with a logarithmic kernel. (Russian) (*see* **89f:35006**)
Lifanov, I. K. A singular integral equation of the first kind for the Neumann problem. **89e:45007**
Liu, Xian Gao Regular solvability of two-dimensional singular integral equations with analytic coefficients. (Chinese. English summary) **89m:45005**
Makarov, I. A. Formulas for the inversion of some singular integral and integro-differential equations. (Russian) **89k:45007**
Omuraliev, A. S. (*with* Saleĭdinov, K. I.) A regularization method for singularly perturbed integral equations. (Russian) **89d:45008**
Saleĭdinov, K. I. *see* **Omuraliev, A. S., 89d:45008**
Vasil′ev, V. V. *see* **Abdullaev, S. K., 89a:45013**

Items with secondary classifications in 45E99

Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**
Costabel, M. (*with* Ervin, V. J.; Stephan, E. P.) On the convergence of collocation methods for Symm's integral equation on open curves. **89h:65218**
Dzhuraev, A. D. ★ Метод сингулярных интегральных уравнений. (Russian) [The method of singular integral equations] **89h:35106**
Ervin, V. J. *see* **Costabel, M.; et al., 89h:65218**
Kas′yanov, V. I. (*with* Kas′yanova, G. B.) Direct methods for solving singular integro-differential equations on the real axis. **89m:45011**
Kas′yanova, G. B. *see* **Kas′yanov, V. I., 89m:45011**
Khaĭrullin, R. Kh. Estimation of functionals from the solutions of homogeneous integral equations by the Monte Carlo method. (Russian) **89d:65109**
Latushkin, Yu. D. (*with* Mamatov, Sh. K.) Operators with a noninvertible expanding shift in Hölder spaces. (Russian) **89e:47047**
Liu, Shi Qiang On problems of elastic half-planes with periodic cracks. (Chinese. English summary) **89i:73015**
Mamatov, Sh. K. *see* **Latushkin, Yu. D., 89e:47047**
Nakhushev, A. M. Continuous differential equations and their difference analogues. **89m:26016**
Popov, G. Ya. *see* **Antipov, Yu. A.; et al., 89h:73015**
Stephan, E. P. *see* **Costabel, M.; et al., 89h:65218**
Uba, P. Smoothness of the solution of a weakly singular integral equation with a discontinuous coefficient. (Russian. English and Estonian summaries) **89g:45004**
Yatsko, S. I. *see* **Antipov, Yu. A.; et al., 89h:73015**

45Fxx Systems of linear integral equations

Items with secondary classifications in 45Fxx

Kudryavtsev, D. L. Asymptotic behavior of the solutions of second-order differential equations in a complex domain. (Russian) **89m:34006**

45F05 Systems of nonsingular linear integral equations

Ibadov, N. V. Inhomogeneous systems of convolution equations in a class of analytic functions. **89h:45009**

Items with secondary classifications in 45F05

Kapanadze, R. V. Investigation of boundary value problems in elasticity theory for anisotropic media by potential methods. I. (Russian) **89c:73018**

45F10 Dual, triple, etc., integral and series equations

Antonishin, I. O. Solution of the Cauchy problem for a system of integro-differential equations. (Russian) **89f:45007**
Cherskiĭ, Yu. I. A multidimensional dual equation on coordinated sets. (Russian. English summary) **89f:45008**
Dhaliwal, R. S. (*with* Singh, B. M.) Dual integral equations involving Legendre functions of complex index. **89f:45009**
Lal, Mange *see* **Narain, Kuldeep, 89f:45011**
Mandal, B. N. A note on Bessel function dual integral equation with weight function. **89f:45010**
Narain, Kuldeep (*with* Lal, Mange) On a class of triple integral equations involving $G(X_n)$. **89f:45011**
Penzel, F. Fredholm-Eigenschaften dualer Integralgleichungen. [Fredholm properties of dual integral equations] **89i:45008**
Prabha, Km. On dual integral equations for two variables. **89g:45019**
Shestopalov, V. P. *see* **Veliev, È. I., 89m:45006**
Singh, B. M. *see* **Dhaliwal, R. S., 89f:45009**
Veliev, È. I. (*with* Shestopalov, V. P.) A general method for solving dual integral equations. **89m:45006**
Virchenko, N. A. Dual integral equations with a generalized associated Legendre function of the first kind. (Russian) (*see* **89c:00023**)

Items with secondary classifications in 45F10

Bass, Ludvik (*with* Bracken, A. J.; Holmåker, K.; Jefferies, Brian) Integro-differential equations for the self-organisation of liver zones by competitive exclusion of cell-types. **89f:92015**
Bracken, A. J. *see* **Bass, Ludvik; et al., 89f:92015**
Holmåker, K. *see* **Bass, Ludvik; et al., 89f:92015**
Islam, M. N. Periodic solutions of Volterra integral equations. **89i:45004**
Jefferies, Brian *see* **Bass, Ludvik; et al., 89f:92015**
Lal, Mange (*with* Mathur, P. K.) A certain class of simultaneous dual equations involving series of Jacobi and Laguerre polynomials. **89i:33018**
Mathur, P. K. *see* **Lal, Mange, 89i:33018**
Pacelli, Graziella An upper bound for the number of isolated eigenvalues of a class of systems of linear integro-differential equations. (Italian. English summary) **89m:45002**
Pandey, S. S. *see* **Trivedi, T. N., 89i:73067** *and* **89k:73015**
Pathak, R. S. Distributional Watson transforms and their applications to dual equations. **89f:44011**
Trivedi, T. N. (*with* Pandey, S. S.) The solution of some dual equations with an application to a problem of elasticity. **89k:73015**
— (*with* Pandey, S. S.) Certain dual integral equations with an application in the theory of elasticity. **89i:73067**

45F15 Systems of singular linear integral equations

Items with secondary classifications in 45F15

Costabel, M. (*with* Stephan, E. P.) Strongly elliptic boundary integral equations for electromagnetic transmission problems. **89k:35066**
Kapanadze, R. V. Investigation of boundary value problems in elasticity theory for anisotropic media by potential methods. I. (Russian) **89c:73018**
Stephan, E. P. *see* **Costabel, M., 89k:35066**

45Gxx Nonlinear integral equations [see also 47Hxx]

Items with secondary classifications in 45Gxx

Guo, Da Jun Some fixed point theorems of expansion and compression type with applications. **89c:47067**

45G05 Singular nonlinear integral equations

Ablaeva, S. G. A multi-element boundary value problem in a space of generalized functions. (Russian) (Not in MR)
Babaev, R. M. Approximation of a hypersingular integral with weight over an interval. (Russian) (*see* **89j:00036**)
Fetisov, V. G. On a problem of estimation for the regularization parameter for the approximate solution of Uryson equations of the first kind. (Russian) **89c:45010**
Grabowski, Jerzy (*with* Sznitko, Wanda) Investigation of a system of nonlinear equations with iterative integral operator. **89c:45011**
Hatcher, John R. New types of nonlinear integral equations. **89h:45010**
Lin, Yi[2] Solving a class of nonlinear singular integral equations with displacement by using the implicit function theorem. (Chinese. English summary) **89i:45009**
Nguyễn Văn Mậu A class of singular integral operators with rotation. (Russian. English summary) **89h:45011**
Sznitko, Wanda *see* **Grabowski, Jerzy, 89c:45011**
Yan, Xin Li The existence of solutions of a class of nonlinear integral equations in transport theory. (Chinese. English summary) **89g:45020**

Items with secondary classifications in 45G05

Baba-Zade, M. A. An singular integral in moduli of smoothness. (Russian) (*see* **89j:00036**)
Deng, Yao Hua Singular integral equations in Orlicz spaces. II. (Chinese) **89k:47077**
Musaev, B. I. Approximate solution of singular integral equations. (Russian. English and Azerbaijani summaries) **89b:65314**
Penzel, F. On the asymptotics of the solution of systems of singular integral equations with piecewise Hoelder-continuous coefficients. **89i:45016**

45G10 Other nonlinear integral equations

Baĭnov, D. D. *see* **Ronkov, A. B., 89c:45014**
Bel'tyukov, B. A. (*with* Makarov, S. A.) On the investigation of a class of two-dimensional partially loaded integral equations. (Russian) **89a:45014**
Braverman, E. Ya. Solvability on the half-axis of some nonlinear integral equations with deviating argument. (Russian) (*see* **89b:00008**)
Daniela, Nistor An existence and uniqueness theorem for integral equations of Fredholm-Volterra type. **89m:45007**
Èshmatov, Kh. (*with* Mukhitdinova, M. I.; Mukhitdinov, T. M.) A modification of the freezing method for systems of integro-differential and integral equations encountered in problems of the theory of viscoelasticity. (Russian) **89f:45012**
Islam, M. N. Periodic solutions of nonlinear integral equations. **89m:45008**
Li, Hao Hao A quasilinear singular integral equation with a class of positive non-Carleman shifts. (Chinese) **89d:45009**
Makarov, S. A. *see* **Bel'tyukov, B. A., 89a:45014**
Mukanov, T. A. Determination of small solutions of nonlinear integral equations by the method of singular transformations. (Russian) **89c:45012**
Mukhitdinov, T. M. *see* **Èshmatov, Kh.; et al., 89f:45012**
Mukhitdinova, M. I. *see* **Èshmatov, Kh.; et al., 89f:45012**
Pachpatte, B. G. Existence theorems for Hammerstein type integral equations. **89i:45010**
— On a certain class of integral-functional equations. **89c:45013**
Ronkov, A. B. (*with* Baĭnov, D. D.) Nonlinear integral inequalities and equations of Volterra type for functions defined in partially ordered spaces. **89c:45014**
Sun, Jing Xian Eigenvalues of superlinear Hammerstein integral equations with a kernel of variable sign. (Chinese. English summary) **89a:45015**
Wilhelmsson, Hans Solutions of reaction-diffusion integral equations describing explosive evolution of densities for localized structures. **89i:45011**

Items with secondary classifications in 45G10

Angelova, D. C. (*with* Baĭnov, D. D.) Oscillatory properties of the solutions of a class of epidemiological equations. **89e:92033**
Argyros, I. K. On a class of nonlinear integral equations arising in neutron transport. **89m:47058**
Ashirov, S. (*with* Kurbanmamedov, N.) Investigation of the solution of a class of integral equations of Volterra type. (Russian) **89c:45002**
Baĭnov, D. D. *see* **Angelova, D. C., 89e:92033**
Dhage, B. C. On some variants of Schauder's fixed point principle and applications to nonlinear integral equations. **89i:47115**
Galkin, V. A. On the solutions of equations connected with physical kinetics. **89h:35327**
Guo, Da Jun (*with* Lakshmikantham, V.) ★ Nonlinear problems in abstract cones. **89k:47084**
Jhang, Chang Hun (*with* Kim, Yong Ryol) Research on numerical method for nonlinear multidimension integral equation of Uryson type. (Korean. English summary) (Not in MR)
Kim, Du Jin Nonlinear continuous perturbation of evolution system of linear operators. (Korean. English summary) **89d:47145**
Kim, Yong Ryol *see* **Jhang, Chang Hun**, (Not in MR)
Kok, W. C. On the solution of nonlinear Fredholm integral equations by reduction to algebraic systems of equations. **89g:45005**
Kumar, Sunil Superconvergence of a collocation-type method for simple turning points of Hammerstein equations. **89c:65139**
Kurbanmamedov, N. *see* **Ashirov, S., 89c:45002**
Lakshmikantham, V. *see* **Guo, Da Jun, 89k:47084**
Milojević, P. S. Fredholm theory and semilinear equations without resonance involving noncompact perturbations. I. **89g:47084a**
— Fredholm theory and semilinear equations without resonance involving noncompact perturbations. II. Applications. **89g:47084b**
Nurekenov, T. K. Conditions for the complete continuity of the Uryson operator. (Russian. Kazakh summary) **89g:47066**
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Èprikashvili, G. P. A special type of boundary value problem for integro-differential equations of Fredholm type with a small parameter multiplying the higher derivatives. (Russian. English and Georgian summaries) **89f:45015**

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Cercignani, Carlo Small data existence for the Enskog equation in L^1. **89i:82032**
Chandler, H. W. A variational principle for granular materials. **89i:73068**
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Costabel, M. Boundary integral operators on Lipschitz domains: elementary results. **89h:35090**
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— (*with* Grimmer, R.) Singular relaxation moduli and smoothing in three-dimensional viscoelasticity. **89k:73031**
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DiPerna, Ronald (*with* Lions, Pierre-Louis) Solutions globales d'équations du type Vlasov-Poisson. (English summary) [Global solutions of Vlasov-Poisson type equations] **89k:35202**
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Elmer, F. J. Nonlinear and nonlocal dynamics of spatially extended systems: stationary states, bifurcations and stability. **89k:35032**
Fitzgibbon, W. E. Longtime behavior for a class of abstract integro-differential equations. **89a:45005**
Galitsyn, A. S. (*with* Slyusareva, L. V.) A nonlinear problem for an evolution equation that takes into account the heat memory of the medium. (Russian. English summary) **89c:35081**
Garroni, Maria Giovanna (*with* Menaldi, José-Luis) On the asymptotic behaviour of solutions of integro-differential inequalities. **89m:49048**
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Hrusa, William J. (*with* Renardy, Michael) A model equation for viscoelasticity with a strongly singular kernel. **89d:35159**
— *see also* **Renardy, Michael; et al., 89b:35134**
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Kireĭtov, V. R. ★ Уравнения распределения средней пространственной освещенности. Одна обратная задача для уравнения Пайерлса. (Russian) [Equations of the propagation of mean spatial illumination. An inverse problem for the Peierls equation] **89f:35203**
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ions, Pierre-Louis *see* **DiPerna, Ronald, 89k:35202**
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Orlovskiĭ, D. G. Differentiability of the solution of the nonstationary multivelocity neutron transport equation. (Russian) **89j:82085**
— (*with* Prilepko, A. I.) Some inverse problems for the linearized Boltzmann equation. (Russian) **89d:35184**
— *see also* **Prilepko, A. I., 89g:82043**
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Prilepko, A. I. (*with* Volkov, N. P.) Inverse problems for determining the parameters of the nonstationary kinetic transport equation from additional information on the traces of the unknown function. **89b:82133**
— (*with* Orlovskiĭ, D. G.) Some inverse problems of kinetic gas theory for states that are close to equilibrium states. **89g:82043**
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Renardy, Michael (*with* Hrusa, William J.; Nohel, John A.) ★ Mathematical problems in viscoelasticity. **89b:35134**
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Slawny, Joseph (*with* Zweifel, P. F.) A note on the singular eigenfunction method in transport energy. **89m:82091**
Slyusareva, L. V. *see* **Galitsyn, A. S., 89c:35081**
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Umbetzhanov, D. U. An almost multiperiodic solution of a class of linear equations of transport type. (Russian) **89m:82092**
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45Lxx Approximation of solutions

45L05 Theoretical approximation of solutions

De Klerk, J. H. Solutions of integral equations via L_1-approximations. **89j:45009**
Gasanov, G. M. Approximation of some integral expressions. (Russian) (*see* **89j:00036**)
Kitagawa, Takashi A deterministic approach to optimal regularization. The finite-dimensional case. **89b:45010**
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Elschner, Johannes On spline approximation for a class of integral equations. I. Galerkin and collocation methods with piecewise polynomials. **89m:65113**
Gabbasov, N. S. On the approximate solution of a Fredholm integral equation of the first kind in a space of generalized functions. (Russian) (*see* **89c:00005**)

Gähler, S. Discrete convergence and applications to integral equations on the half line. **89h:65219**
Guacaneme, Julio E. On optimal convergence for regularized Tikhonov approximations. **89h:65220**
Hähner, Peter An exterior boundary-value problem for the Maxwell equations with boundary data in a Sobolev space. **89k:35210**
Hazou, Irene A. (*with* Solmon, Donald C.) Inversion of the exponential X-ray transform. I. Analysis. **89k:44007**
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Lukas, M. A. Convergence rates for regularized solutions. **89h:65223**
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Maz'ya, V. G. (*with* Solov'ev, A. A.) Solvability of an integral equation of the Dirichlet problem in a plane domain with cusps on the boundary. **89h:35082**
Meleshko, I. N. Application of first-degree splines to the approximate solution of a singular integro-differential equation. **89e:65155**
Meyer, Christian Näherungsverfahren für singuläre Integraloperatoren mit spezieller Carlemanscher Verschiebung. [Approximation methods for singular integral operators with special Carleman shift] **89f:45006**
Morozov, V. A. ★ Методы регуляризации неустойчивых задач. (Russian) [Methods for the regularization of unstable problems] **89m:65056**
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Nashed, M. Z. On nonlinear ill-posed problems. I. Classes of operator equations and minimization of functionals. **89b:65146**
Neubauer, Andreas ★ Tikhonov-regularization of ill-posed linear operator equations on closed convex sets. **89h:65093**
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Pilidi, V. S. Uniform invertibility of regular approximations of one-dimensional singular integral operators. **89i:45007**
Sloan, Ian H. (*with* Spence, A.) Projection methods for integral equations on the half-line. **89h:65225**
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Voronina, N. V. Approximate solution of integro-partial differential equations with autocontrol. (Russian) (*see* **89b:00008**)
Wang, Mao Ling (*with* Chang, Jung Yü; Yang, Shwu Yien) Double generalized orthogonal polynomial series for the solution of integral equations. **89m:65117**
Wójtowicz, Bogdan A two-point boundary value problem of integro-differential systems of Volterra type. (Russian) **89f:45003**
Yang, Shwu Yien *see* **Wang, Mao Ling; et al., 89m:65117**
Zolotarevskiĭ, V. A. Interpolation of functions on a complex contour and its application in the approximate solution of integral equations. (Russian) **89i:41011**

45L10 Numerical approximation of solutions {For numerical analysis, see 65R20.}

Babaev, Arif Aligeidarovich (*with* Musaev, B. I.) An approximate solution of a complete linear singular integral equation with a Hilbert kernel. (Russian) **89g:45025**
Chen, Chao Kuang *see* **Yang, Ching Yu; et al., 89a:45023**
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Yang, Ching Yu (*with* Chen, Chieh-Li; Chen, Chao Kuang) Solutions of integral equations via Taylor series. **89a:45023**
Zolotarevskiĭ, V. A. The reduction method for the solution of complete singular integral equations on a Lyapunov contour. (Russian) **89g:45026**

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Agoshkov, V. I. (*with* Lobarev, I. V.) ★ Применение вариационных принципов к решению уравнения переноса. (Russian) [Application of variational principles to the solution of a transport equation] **89d:82149**
Apartsin, A. S. Discretization methods for the regularization of some integral equations of the first kind. (Russian) **89a:65196**
Arsenin, V. Ya. (*with* Kriksin, Yu. A.; Timonov, A. A.) Some methods for the local regularization of linear ill-posed problems. (Russian) **89a:65089**
Brunner, H. Collocation methods for one-dimensional Fredholm and Volterra integral equations. **89m:65112**
Costabel, M. (*with* Ervin, V. J.; Stephan, E. P.) On the convergence of collocation methods for Symm's integral equation on open curves. **89h:65218**
Delves, L. M. (*with* Mohamed, J. L.) ★ Computational methods for integral equations. **89b:65311**
Engl, Heinz W. (*with* Neubauer, Andreas) A parameter choice strategy for (iterated) Tikhonov regularization of ill-posed problems leading to superconvergence with optimal rates. **89b:65135**
— (*with* Groetsch, C. W.) A higher order approximation technique for restricted linear least-squares problems. **89g:65074**
Ervin, V. J. *see* **Costabel, M.; et al., 89h:65218**
Fetisov, V. G. On a problem of estimation for the regularization parameter for the approximate solution of Uryson equations of the first kind. (Russian) **89c:45010**
Garey, L. E. (*with* Shaw, R. E.) Numerical methods and roots of the solution for singular integro-differential equations. **89i:65140**
— *see also* **Shaw, R. E., 89b:65318**
Golberg, Michael A. A note on a superconvergence result for the generalized airfoil equation. **89f:65141**
Groetsch, C. W. *see* **Engl, Heinz W., 89g:65074**
Guacaneme, Julio E. On optimal convergence for regularized Tikhonov approximations. **89h:65220**
Gwinner, J. On the Galerkin approximation of nonsmooth boundary integral equations arising in radiative heat transfer. **89m:80004**
Haario, H. (*with* Somersalo, E.) The Backus-Gilbert method revisited: background, implementation and examples. **89h:65221**
Kak, A. C. (*with* Roberts, B. A.) Reconstruction from projections: applications in computerized tomography. **89e:92006**
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Lifanov, I. K. Numerical solution of singular Hilbert integral equations with a strong singularity. (Russian) (*see* **89g:65006**)
— A singular integral equation of the first kind for the Neumann problem. **89e:45007**
Lobarev, I. V. *see* **Agoshkov, V. I., 89d:82149**
Matúš, František The L^2-optimality convolving functions in reconstruction convolution algorithms. **89d:92015**
Mohamed, J. L. *see* **Delves, L. M., 89b:65311**
Moret, Igor (*with* Omari, Pierpaolo) Iterative solution of integral equations by a quasi-Newton method. **89a:65200**
Mureşan, Viorica The successive approximation method for some integral equations of Volterra type with deviating argument. (Romanian. English summary) **89g:65049**
Nair, M. Thamban A modified projection method for equations of the second kind. **89b:65139**
Neubauer, Andreas *see* **Engl, Heinz W., 89b:65135**
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Polishchuk, A. D. ★ О сходимости проекционных методов решения интегральных уравнений теории потенциала. (Russian) [Convergence of projection methods for the solution of integral equations in potential theory] **89k:65164**
Pulyaev, V. F. Exponential solutions of integral equations. **89k:45004**
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Seĭchuk, V. N. A mechanical quadrature method for singular integral equations with shift on a Lyapunov curve. (Russian) **89g:65171**
Shaw, R. E. (*with* Garey, L. E.) Modified increment methods for solving nonlinear second order Volterra integro-differential equations. **89b:65318**
— *see also* **Garey, L. E., 89i:65140**
Silbermann, Bernd Numerical analysis for Wiener-Hopf integral equations in spaces of measurable functions. **89f:65148**
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Stephan, E. P. *see* **Costabel, M.; et al., 89h:65218**
Tang, Tao (*with* Yuan, Wei) The further study of a certain nonlinear integro-differential equation. **89h:45015**
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Ungiadze, A. V. Approximate solutions of singular integral equations with fixed singularities. (Russian) **89b:65320**
Volkov, Yu. A. The Monte Carlo method for the Landau equation. (Russian) **89g:82045**
Yang, Gan Shan *see* **Zhang, Shi Sheng, 89i:45006**
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Zhang, Shi Sheng (*with* Yang, Gan Shan) On the solution by determinantal series to Volterra integral equations of the second kind with convolution-type kernel. (Chinese. English summary) **89i:45006**
Zolotarevskiĭ, V. A. (*with* Tutunaru, S. A.) Some direct methods for the approximate solution of bisingular integral equations. (Russian) **89g:65172**

45L99 None of the above, but in this section

Items with secondary classifications in 45L99

Lubich, C. A stability analysis of convolution quadratures for Abel-Volterra integral equations. **89k:65163**

45Mxx Qualitative behavior

45M05 Asymptotics

Antonishin, I. O. Linear integral equations with asymptotically almost-periodic solutions. (Russian) **89a:45024**
Mal'kov, K. V. Stabilization of the solutions of a nonlinear integro-differential kinetic equation. (Russian) **89k:45010**
Maz'ya, V. G. (*with* Solov'ev, A. A.) Asymptotic behavior of the solution of an integral equation of the Neumann problem in a plane domain with cusps at the boundary. (Russian. English and Georgian summaries) **89m:45019**
Penzel, F. On the asymptotics of the solution of systems of singular integral equations with piecewise Hoelder-continuous coefficients. **89i:45016**
Pyatov, V. N. (*with* Tikhonenko, N. Ya.) Asymptotic behavior of the solution of a singular integral equation with involutive shift. (Russian) **89c:45023**
Reade, J. B. On the sharpness of Weyl's estimates for eigenvalues of smooth kernels. II. **89g:45027**
Solov'ev, A. A. *see* **Maz'ya, V. G., 89m:45019**
Tikhonenko, N. Ya. *see* **Pyatov, V. N., 89c:45023**

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Angelova, D. C. (*with* Baĭnov, D. D.) On the behaviour of the solutions of Volterra second order integro-differential equations. **89k:45008**
Baĭnov, D. D. *see* **Angelova, D. C., 89k:45008**
Gautesen, A. K. On the asymptotic solution to a class of linear integral equations. **89d:45002**
Hussain, M. A. On a nonlinear integrodifferential equation in Banach space. **89f:45020**

Magnaradze, L. G. An asymptotic property of the solutions of some classes of ordinary linear differential equations and linear Volterra integral equations. (Russian. English and Georgian summaries) **89e:45003**

Maz′ya, V. G. (*with* Solov′ev, A. A.) Solvability of an integral equation of the Dirichlet problem in a plane domain with cusps on the boundary. **89h:35082**

Noren, Richard Uniform L^1 behavior for the solution of a Volterra equation with a parameter. **89d:45004**

Solov′ev, A. A. *see* **Maz′ya, V. G., 89h:35082**

Staffans, Olof J. A direct Lyapunov approach to Volterra integro-differential equations. **89h:45014**

Yoshizawa, Taro Some results on equations with unbounded delay. **89b:34170**

45M10 Stability theory

Barsuk, L. O. Absolute stability of distributed systems in different nonequivalent norms. (Russian) (*see* **89b:93007**)

Desch, W. (*with* Miller, Richard K.) Exponential stabilization of Volterra integro-differential equations in Hilbert space. **89a:45025**

Elaydi, Saber (*with* Rama Mohana Rao, M.) Lipschitz stability for nonlinear Volterra integrodifferential systems. **89h:45016**

Fitzgibbon, W. E. Asymptotic stability for a class of integrodifferential equations. **89m:45020**

Geidarov, B. A. On an inequality for Volterra operators. (Russian) (*see* **89j:00015**)

Gopalsamy, K. (*with* Rai, Bindhyachal) Stability analysis of synchronous oscillations in a weakly coupled integrodifferential system. **89m:45021**

Leonov, G. A. (*with* Smirnova, V. B.) Stability in the large of integro-differential equations of nondirect control systems. **89c:45024**

Miller, Richard K. *see* **Desch, W., 89a:45025**

Morchało, Jarosław Integral equivalence of two systems of integro-differential equations. **89a:45026**

Rai, Bindhyachal *see* **Gopalsamy, K., 89m:45021**

Rama Mohana Rao, M. *see* **Elaydi, Saber, 89h:45016**

Ruan, Shi Gui Stability of Volterra integrodifferential systems. **89m:45022**

Sergeev, V. S. Instability of the zero solution of a class of integro-differential equations. **89j:45011**

Smirnova, V. B. *see* **Leonov, G. A., 89c:45024**

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Akhmetov, M. U. Almost periodic solutions of integro-differential equations with impulse action. (Russian) **89f:45013**

Antonishin, I. O. Linear integral equations with asymptotically almost-periodic solutions. (Russian) **89a:45024**

Brauer, Fred A class of Volterra integral equations arising in delayed-recruitment population models. **89c:92049**

Dhage, B. C. On abstract measure integro-differential equations. **89e:45009**

Hannsgen, Kenneth B. (*with* Renardy, Yuriko; Wheeler, Robert L.) Effectiveness and robustness with respect to time delays of boundary feedback stabilization in one-dimensional viscoelasticity. **89k:93165**

Lasseigne, D. Glenn Asymptotic analysis of a Volterra integral equation. (Not in MR)

Leela, S. (*with* Rama Mohana Rao, M.) (h_0, h, M_0)-stability for integro-differential equations. **89d:45015**

Leung, Anthony W. (*with* Zhou, Zhi Ming) Global stability for large systems of Volterra-Lotka type integro-differential population delay equations. **89h:92048**

Mal′kov, K. V. Stabilization of the solutions of a nonlinear integro-differential kinetic equation. (Russian) **89k:45010**

Rama Mohana Rao, M. *see* **Leela, S., 89d:45015**

Renardy, Yuriko *see* **Hannsgen, Kenneth B.; et al., 89k:93165**

Sergeev, V. S. Stability of the solutions of integro-differential equations in certain cases. (Russian) **89i:45014**

Staffans, Olof J. A direct Lyapunov approach to Volterra integro-differential equations. **89h:45014**

Vasil′chenko, A. A. *see* **Vinokurov, V. R., 89b:45004**

Vessella, Sergio Stability results for Abel equation. **89c:45009**

Vinokurov, V. R. (*with* Vasil′chenko, A. A.) The method of the small parameter in Volterra integral equations. (Russian) **89b:45004**

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All-Union School:
  Theory of Operators in Function Spaces ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть I. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part I] **89f:00020a**
  — ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть II. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part II] **89f:00020b**
  — ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть III. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part III] **89f:00020c**
Approximation in concrete and abstract Banach spaces ★ Аппроксимация в конкретных и абстрактных банаховых пространствах. (Russian) [Approximation in concrete and abstract Banach spaces] **89b:41002**
Bucharest ★ Special classes of linear operators and other topics. **89b:47003**
Canberra ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**
Chelyabinsk ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть I. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part I] **89f:00020a**
— ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть II. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part II] **89f:00020b**
— ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть III. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part III] **89f:00020c**
Conference:
  Generalized Functions, Convergence Structures, and their Applications ★ Generalized functions, convergence structures, and their applications. **89i:00025**
  Operator Theory ★ Special classes of linear operators and other topics. **89b:47003**
Dubrovnik ★ Generalized functions, convergence structures, and their applications. **89i:00025**
Function algebras and related topics ★ Kansukan ni kanren shita sho mondai. II. (Japanese) [Function algebras and related topics. II] **89i:32001**
Generalized functions, convergence structures, and their applications ★ Generalized functions, convergence structures, and their applications. **89i:00025**
Miniconference:
  Harmonic Analysis and Operator Algebras ★ Miniconferences on harmonic analysis and operator algebras. **89b:00024**
Problems in functional analysis ★ Вопросы функционального анализа. (Russian) [Problems in functional analysis] **89a:00013**
Special classes of linear operators and other topics ★ Special classes of linear operators and other topics. **89b:47003**
Symposium:
  Function Algebras and Related Topics ★ Kansukan ni kanren shita sho mondai. II. (Japanese) [Function algebras and related topics. II] **89i:32001**

46Axx Topological linear spaces

Kumar, Rohtash Completion of the locally convex space and different duals. (Not in MR)

Items with secondary classifications in 46Axx

Henson, C. Ward Infinitesimals in functional analysis. (*see* **89m:03060**)
Zhao, Gen Rong Bornology: a brief exposition. (Chinese. English summary) **89f:46007**

46A05 Locally convex spaces

Antosik, P. (*with* Burzyk, J.) Sequential conditions for barrelledness and bornology. (Russian summary) **89d:46001**
Balakliets, V. A. (ODF)-spaces and their properties. (Russian) **89g:46003**

Boltyanskiĭ, V. V. Dense embeddings of topological vector spaces. (Russian. English and Georgian summaries) **89c:46003**
Burzyk, J. *see* **Antosik, P., 89d:46001**
Facenda Aguirre, José Antonio Stability of locally convex spaces under ultraproducts. (Spanish. English summary) **89f:46001**
Fdez. Castillo, Jesús M. Sums and products of Hilbert spaces. **89f:46002**
García Lafuente, José M. Une note sur les espaces quasi-normables. (English summary) [A note on quasinormable spaces] **89a:46005**
Gilsdorf, Thomas E. The Mackey convergence condition for spaces with webs. **89f:46003**
Metafune, Giorgio (*with* Moscatelli, Vincenzo Bruno) On the three-space property for locally convex spaces. **89a:46006**
Miwa, Takuo Topological properties of some locally convex linear topological spaces. **89f:46004**
Moscatelli, Vincenzo Bruno *see* **Metafune, Giorgio, 89a:46006**
Simões, Marilda A. Singly generated ideals of locally convex spaces. (Italian summary) **89a:46007**
Svensson, Lars Eric Sums of complemented subspaces in locally convex spaces. **89a:46008**

Items with secondary classifications in 46A05

Caenepeel, S. (*with* Schikhof, W. H.) Two elementary proofs of Katsaras' theorem on p-adic compactoids. **89a:46149**
Dobrić, V. Analytically normed spaces. **89c:46014**
Giannakoulias, E. M. Some properties of vector measures taking values in a topological vector space. **89e:46047**
Khan, Liaqat Ali Mackey space problem for double centralizer algebras. **89f:46109**
Liu, Shu Zhong Some conditions equivalent to sequential completeness in locally convex spaces. (Chinese. English summary) **89a:46018**
Lourenço, Mary Lilian Riemann domains over (DFC)-spaces. **89g:46083**
Martínez-Maurica, J. (*with* Pérez-García, Cristina) The three-space problem for a class of normed spaces. **89a:46151**
Pérez-García, Cristina *see* **Martínez-Maurica, J., 89a:46151**
de Queiroz, Maria Lúcia B. Mixed vector space topologies. **89c:46100**
Robertson, A. P. *see* **Robertson, W. J.; et al., 89e:46003**
Robertson, W. J. (*with* Saxon, S. A.; Robertson, A. P.) Barrelled spaces and dense vector subspaces. **89e:46003**
Saxon, S. A. *see* **Robertson, W. J.; et al., 89e:46003**
Schikhof, W. H. *see* **Caenepeel, S., 89a:46149**
van de Vel, Marcel Continuous position and existence sets. **89i:46013**
Vukman, J. An application of S. Kurepa's extension of Jordan-Neumann characterization of pre-Hilbert space. (Slovenian summary) **89b:46031**
Xu, Shu Fang A preliminary study of quasibornological spaces. (Chinese. English summary) **89j:46003**

46A06 Metrizable topological linear spaces and their duals (F-, DF-spaces, etc.)

Burzyk, J. An example of a non-complete normed N-space. (Russian summary) **89c:46004**
Canela, Miguel A. Intermediate topologies in F-spaces. **89k:46001**
Li, Chong A note on subadditive functionals. (Chinese. English summary) **89b:46006**
Naidu, S. V. R. *see* **Sastry, K. P. R.; et al., 89a:46009**
Rao, I. H. N. *see* **Sastry, K. P. R.; et al., 89a:46009**
Rao, K. P. R. *see* **Sastry, K. P. R.; et al., 89a:46009**
Sastry, K. P. R. (*with* Naidu, S. V. R.; Rao, I. H. N.; Rao, K. P. R.) Geometry of metric linear spaces with application to fixed point theory. **89a:46009**
Taskinen, Jari (FBa)-and (FBB)-spaces. **89h:46001**
Vogt, D. Tame spaces and power series spaces. **89i:46005**
Wang, Chong Hu A note on generalizations of the Mazur-Ulam theorem. (Chinese. English summary) **89d:46002**

Items with secondary classifications in 46A06

Akkar, Mohamed (*with* El Azhari, M.; Oudadess, M.) Théorèmes de structure sur certaines algèbres de Fréchet. (English summary) [Structure theorems for some Fréchet algebras] **89e:46054**
Bonet, José (*with* Dierolf, Susanne) A note on biduals of strict (LF)-spaces. **89h:46002**
Dierolf, Susanne *see* **Bonet, José, 89h:46002**
El Azhari, M. *see* **Akkar, Mohamed; et al., 89e:46054**
Kąkol, Jerzy Basic sequences and nonlocally convex topological vector spaces. **89g:46007**
Metafune, Giorgio (*with* Moscatelli, Vincenzo Bruno) A twisted Fréchet space with basis. **89b:46010**
Moscatelli, Vincenzo Bruno *see* **Metafune, Giorgio, 89b:46010**
Oudadess, M. *see* **Akkar, Mohamed; et al., 89e:46054**
Schmets, Jean (*with* Zafarani, Jafar) Strict topologies and (gDF)-spaces. **89a:46079**
Tabacco Vignati, Anita Complex interpolation for families of quasi-Banach spaces. **89f:46137**
Taskinen, Jari A counterexample to "problème des topologies" of Grothendieck. **89j:46072**
— The projective tensor product of Fréchet-Montel spaces. **89k:46087**
Uriz, Zenaida Some results on the finite representability of l^q $(0 < q \leq \infty)$ in p-Banach spaces. (Spanish. English summary) **89k:46028**
Vogt, D. On the functors $\mathrm{Ext}^1(E, F)$ for Fréchet spaces. **89a:46146**
Zafarani, Jafar *see* **Schmets, Jean, 89a:46079**

46A07 Barrelled spaces

Ferrando, J. C. (*with* López Pellicer, M.) Quasi-suprabarrelled spaces. **89m:46004**
García Lafuente, José M. Subspaces of c_0-barrelled spaces. (Spanish) **89f:46005**
Hsiang, Wên Han On sequential barrelledness of locally convex spaces. **89a:46010**
Iyahen, S. O. On $B(\mathscr{F})$-spaces. **89j:46002**
Izquierdo Sebastián, Joaquín On certain classes of semiconvex spaces. (Spanish. English summary) **89b:46007**
Khaleelulla, S. M. Some results in S-barrelled spaces. **89a:46011**
— S-ultrabarrelled spaces. **89b:46008**
López Pellicer, M. *see* **Ferrando, J. C., 89m:46004**
Murali, V. Suprabarrels in topological vector spaces. **89a:46012**
Radenović, S. A note on the barrelledness in linear topological spaces. (Serbo-Croatian summary) **89c:46005**
Robertson, A. P. *see* **Robertson, W. J.; et al., 89e:46003**
Robertson, W. J. (*with* Saxon, S. A.; Robertson, A. P.) Barrelled spaces and dense vector subspaces. **89e:46003**
Saxon, S. A. *see* **Robertson, W. J.; et al., 89e:46003**

Items with secondary classifications in 46A07

Antosik, P. (*with* Burzyk, J.) Sequential conditions for barrelledness and bornology. (Russian summary) **89d:46001**
Bonet, José A note on the coincidence of topologies in tensor products. (Spanish. English summary) **89e:46080**
Burzyk, J. *see* **Antosik, P., 89d:46001**
Crespo, Rafael Duality and barrelling in $\lambda_0(E)$. (Spanish. English summary) **89a:46021**
García, Domingo Some holomorphic classes of locally convex spaces. (Spanish. English summary) **89k:46060**
García Lafuente, José M. ★ Espacios (LF) y el problema del cociente separable. (Spanish) [(LF) spaces and the separable quotient problem] **89e:46004**

46A09 Bornological spaces

Álvarez, Teresa H-ultrabornological spaces. **89g:46004**
Kera, Kazuo S-sequential and S-ultrabornological topological vector spaces. **89f:46006**
Xu, Shu Fang A preliminary study of quasibornological spaces. (Chinese. English summary) **89j:46003**
Zhao, Gen Rong Bornology: a brief exposition. (Chinese. English summary) **89f:46007**

Items with secondary classifications in 46A09

Antosik, P. (*with* Burzyk, J.) Sequential conditions for barrelledness and bornology. (Russian summary) **89d:46001**
Bonet, José A note on the coincidence of topologies in tensor products. (Spanish. English summary) **89e:46080**
Burzyk, J. *see* **Antosik, P., 89d:46001**
García, Domingo Some holomorphic classes of locally convex spaces. (Spanish. English summary) **89k:46060**
Waelbroeck, L. Quotient bornological spaces. **89m:46013**

46A10 Locally bounded topological linear spaces

Wang, Chong Hu The existence of Klee subsets and a characterization of infinite dimension in a class of topological linear spaces. (Chinese) **89b:46009**

Items with secondary classifications in 46A10

Kalton, N. J. Compact convex sets and complex convexity. **89a:46025**

46A12 Spaces defined by special inductive or projective limits (LF-, nuclear, Schwartz, Silva spaces, etc.) [see also 46M10, 46M40]

Bonet, José (*with* Dierolf, Susanne) A note on biduals of strict (LF)-spaces. **89h:46002**
Dierolf, Susanne *see* **Bonet, José, 89h:46002**
Fdez. Castillo, Jesús M. ★ La estructura de los S-espacios. (Spanish) [The structure of S-spaces] **89f:46008**
— On Schwartz spaces satisfying the equation $\Delta(E \times E) = \Delta(E)$. (Turkish summary) **89a:46013**
— An internal characterization of G-spaces. **89d:46003**
García Lafuente, José M. ★ Espacios (LF) y el problema del cociente separable. (Spanish) [(LF) spaces and the separable quotient problem] **89e:46004**
Kramar, Edvard On orthogonality and on adjoint operator in H-locally convex spaces. **89m:46005**
Kucera, Jan Regular inductive limits. **89k:46002**
Lindström, Mikael A characterization of Schwartz spaces. **89f:46009**
Liu, Pei De Set function processes and nuclearity in Fréchet spaces. (Chinese. English summary) **89k:46003**
Metafune, Giorgio (*with* Moscatelli, Vincenzo Bruno) Another construction of twisted spaces. **89g:46005**
Moscatelli, Vincenzo Bruno (*with* Simões, Marilda A.) Generalized Nash-Moser smoothing operators and the structure of Fréchet spaces. **89i:46006**
— *see also* **Metafune, Giorgio, 89g:46005**
Simões, Marilda A. *see* **Moscatelli, Vincenzo Bruno, 89i:46006**
Vogt, D. On the characterization of subspaces and quotient spaces of stable power series spaces of finite type. **89i:46007**
Zarnadze, D. N. Strict regularity of a separable Fréchet space that does not have a nuclear Köthe quotient space. **89g:46006**

Items with secondary classifications in 46A12

Berger, S. M. On deductive varieties of locally convex spaces. **89k:46088**
Bjon, Sten (*with* Lindström, Mikael) Characterization of Schwartz spaces by their holomorphic duals. **89f:46099**
Díaz Alcaide, Juan Carlos Unconditional bases in countable-$\mathscr{L}_1$ spaces. **89k:46007**
Duchoň, Miloslav Vector measures and nuclearity. (Russian summary) **89j:46045**
Filter, Wolfgang Inductive limits of Riesz spaces. **89k:46008**
García Lafuente, José M. Une note sur les espaces quasi-normables. (English summary) [A note on quasinormable spaces] **89a:46005**
Gilsdorf, Thomas E. The Mackey convergence condition for spaces with webs. **89f:46003**
Jarchow, Hans (*with* John, Kamil) On the equality of injective and projective tensor products. **89j:46071**

John, Kamil *see* **Jarchow, Hans, 89j:46071**

Lindström, Mikael *see* **Bjon, Sten, 89f:46099**

Metafune, Giorgio (*with* Moscatelli, Vincenzo Bruno) On the three-space property for locally convex spaces. **89a:46006**

— (*with* Moscatelli, Vincenzo Bruno) Nuclear Fréchet spaces with basis do not have the three-space property. **89c:46008**

— (*with* Moscatelli, Vincenzo Bruno) A twisted Fréchet space with basis. **89b:46010**

Moscatelli, Vincenzo Bruno *see* **Metafune, Giorgio, 89a:46006; 89b:46010** *and* **89c:46008**

Nakamura, Masatoshi Entropy numbers in p-Banach spaces and $\mathscr{E}$-nuclearity. **89d:47035**

de Queiroz, Maria Lúcia B. Mixed vector space topologies. **89c:46100**

Reiher, Konrad Weighted inductive and projective limits of normed Köthe function spaces. **89d:46034**

Romero Marzal, Luis ★ Espacios $G_\infty(\lambda)$ y nuclearidad asociada. (Spanish) [$G_\infty(\lambda)$-spaces and associated nuclearity] **89g:46014**

Simões, Marilda A. Singly generated ideals of locally convex spaces. (Italian summary) **89a:46007**

Valdivia, M. (F)-spaces and strict (LF)-spaces. **89e:46005**

46A14 Spaces defined by compactness properties (Montel spaces, etc.)

Lindström, Mikael Schwartz spaces and compact holomorphic mappings. **89d:46004**

Items with secondary classifications in 46A14

Taskinen, Jari The projective tensor product of Fréchet-Montel spaces. **89k:46087**

46A15 Other topological linear spaces

Abe, Yutaka *see* **Sakurada, Kuninori; et al., 89c:46006**

Cho, Yeol Je *see* **Ha, Ki Sik; et al., 89m:46006**

Franić, Ivan A remark on the strict convexity for seminorms. (Serbo-Croatian summary) **89i:46008**

García Lafuente, José M. A note on spaces containing c_0. **89a:46014**

Gupta, S. C. (*with* Siddiqi, A. H.; Siddiqi, Ataullah) On semi m-normed spaces. **89a:46015**

Ha, Ki Sik (*with* Cho, Yeol Je; White, Albert George, Jr.) Strictly convex and strictly 2-convex 2-normed spaces. **89m:46006**

Hashimoto, Isao *see* **Sakurada, Kuninori; et al., 89c:46006**

Ishida, Toshiyuki *see* **Sakurada, Kuninori; et al., 89c:46006**

Kąkol, Jerzy On some dense dual-separating subspaces in F-spaces. (Russian summary) **89h:46003**

— Basic sequences and nonlocally convex topological vector spaces. **89g:46007**

Katsaras, A. K. On linear fuzzy neighborhood spaces. **89k:46004**

Ma, Ming *see* **Wu, Cong Xin, 89k:46005**

Miyamoto, Yutaka *see* **Sakurada, Kuninori; et al., 89c:46006**

Morsi, Nehad N. On fuzzy pseudo-normed vector spaces. **89m:46007**

Pap, Endre Sequential continuous mappings on uniform semigroups. (Serbo-Croatian summary) **89g:46008**

— Comparison of K-convergences. **89h:46004**

Sakurada, Kuninori (*with* Abe, Yutaka; Ishida, Toshiyuki; Hashimoto, Isao; Miyamoto, Yutaka) On quasi-ranked vector spaces. I. **89c:46006**

Siddiqi, A. H. *see* **Gupta, S. C.; et al., 89a:46015**

Siddiqi, Ataullah *see* **Gupta, S. C.; et al., 89a:46015**

White, Albert George, Jr. *see* **Ha, Ki Sik; et al., 89m:46006**

Wu, Cong Xin (*with* Ma, Ming) Uniformizable fuzzy topological vector spaces. **89k:46005**

Items with secondary classifications in 46A15

Casasús, Trinidad On quasi LF spaces and the closed graph theorem. (Serbo-Croatian summary) **89h:46005**

Godini, G. On normed almost linear spaces. **89g:46043**

Hadžić, O. Some results from nonlinear analysis in limit vector spaces. **89k:47091**

Maddox, I. J. Matrix transformations and convex spaces. **89e:40008**

Nakanishi, Shizu On topological structures of spaces $C([0,1],X)$ and $C([0,\infty),X)$. III. **89f:46084**

Vukman, J. Operator star algebras and the structure of locally convex vector spaces. (Slovenian summary) **89f:46047**

46A20 Duality theory

Hsiang, Wên Han Elementary proofs of some results in the duality of locally convex spaces. **89a:46016**

Rodrigues, B. (*with* Simons, Stephen) A minimax proof of the Kreĭn-Smulian theorem. **89j:46004**

Simons, Stephen *see* **Rodrigues, B., 89j:46004**

Items with secondary classifications in 46A20

Bonet, José (*with* Dierolf, Susanne) A note on biduals of strict (LF)-spaces. **89h:46002**

Dierolf, Susanne *see* **Bonet, José, 89h:46002**

García Lafuente, José M. Une note sur les espaces quasi-normables. (English summary) [A note on quasinormable spaces] **89a:46005**

Werner, Elisabeth Quasi-Banach spaces which are unique predual. **89h:46013**

46A22 Extension and lifting of functionals and operators [see also 46M10]

König, Heinz On the abstract Hahn-Banach theorem due to Rodé. **89f:46010**

Kotarski, Wiesław A remark on the Hahn-Banach theorem. (Serbo-Croatian summary) **89a:46017**

Páles, Zsolt (*with* Száz, Árpád) The Hahn-Banach invariant extension theorem can also be sharpened. (Hungarian. English and Russian summaries) **89i:46009**

(Rodé, Gerd) *see* **König, Heinz, 89f:46010**

Száz, Árpád *see* **Páles, Zsolt, 89i:46009**

Items with secondary classifications in 46A22

Fdez. Castillo, Jesús M. ★ La estructura de los S-espacios. (Spanish) [The structure of S-spaces] **89f:46008**

García Castellón, F. (*with* Plans, A.) On linear simplification in Banach spaces. II. (Italian summary) **89f:46022**

Hollstein, Ralf Infinite-factorable holomorphic mappings on locally convex spaces. **89f:46101**

Langenbruch, Michael Bases in spaces of ultradifferentiable functions with compact support. **89g:46066**

Li, Daniel Lifting properties for some quotients of L^1-spaces and other spaces L-summand in their bidual. **89h:46027**

Plans, A. *see* **García Castellón, F., 89f:46022**

46A30 Open mappings and closed graph theorems and completeness (including B-, B_r-completeness)

Aamri, Mohamed Quelques remarques sur le théorème du graphe fermé. (English summary) [Some remarks on the closed graph theorem] **89d:46005**

Casasús, Trinidad On quasi LF spaces and the closed graph theorem. (Serbo-Croatian summary) **89h:46005**

Iyahen, S. O. A note on B-complete spaces and the closed graph theorem. **89j:46005**

Liu, Shu Zhong Some conditions equivalent to sequential completeness in locally convex spaces. (Chinese. English summary) **89a:46018**

Swartz, Charles The closed graph theorem without category. **89a:46019**

Valdivia, M. (F)-spaces and strict (LF)-spaces. **89e:46005**

Items with secondary classifications in 46A30

Balbi, Marilene Teixeira Topological vector spaces over topological division rings: barrelled, bornological and quasibarrelled spaces. **89i:46078**

Ferrando, J. C. (*with* López Pellicer, M.) Quasi-suprabarrelled spaces. **89m:46004**

Izquierdo Sebastián, Joaquín On certain classes of semiconvex spaces. (Spanish. English summary) **89b:46007**

Khaleelulla, S. M. Some results in S-barrelled spaces. **89a:46011**

— S-ultrabarrelled spaces. **89b:46008**

López Pellicer, M. *see* **Ferrando, J. C., 89m:46004**

Misra, D. N. *see* **Singh, Virendra Pratap^2, 89a:54015**

Qiu, Chong Yi The problem of completeness of the (E_1) topology in a Banach space. (Chinese) **89i:46020**

Sadyrkhanov, R. S. The openness of mappings with singularities in Banach spaces. **89m:58021**

Singh, Virendra Pratap^2 (*with* Misra, D. N.) Some implications of mappings with closed graph. **89a:54015**

Smoleński, Włodzimierz On the continuity of measurable linear functionals. (Russian summary) **89m:46084**

Wrobel, Volker Spektraltheorie verwandter Operationen. (English summary) [Spectral theory of related operations] **89c:47005**

46A32 Spaces of linear operators

Behrends, Ehrhard On the geometry of spaces of C_0K-valued operators. **89k:46006**

Cascales, Bernardo A note on the localization of sets of linear mappings. (Spanish. English summary) **89j:46006**

Dayal, Saheb (*with* Jain, Sushma) Pseudonorm topology on the space of continuous multilinear operators on linear topological spaces. **89d:46006**

García Nogales, Agustín ★ K-analiticidad de espacios de operadores. (Spanish) [The K-analyticity of operator spaces] **89g:46009**

Jain, Sushma *see* **Dayal, Saheb, 89d:46006**

Items with secondary classifications in 46A32

Blasco De La Cruz, Oscar Boundary values of vector-valued harmonic functions considered as operators. **89c:46053**

Cassier, Gilles Algèbres ultrafaibles d'opérateurs. [Ultraweak operator algebras] **89i:47083**

Nakamura, Masatoshi Entropy numbers in p-Banach spaces and $\mathscr{E}$-nuclearity. **89d:47035**

Pombo, Dinamérico P., Jr. Completion of spaces of homogeneous polynomials. **89f:46141**

Ruess, W. (*with* Werner, Dirk) Structural properties of operator spaces. **89d:47097**

— (*with* Stegall, Ch.) Fréchet differentiability of the norm in operator spaces. **89g:47057**

Stegall, Ch. *see* **Ruess, W., 89g:47057**

Werner, Dirk *see* **Ruess, W., 89d:47097**

Xu, Shu Fang A preliminary study of quasibornological spaces. (Chinese. English summary) **89j:46003**

46A35 Summability and bases

Ariño, Miguel A. On shrinking bases in p-Banach spaces. **89a:46020**

Basit, Bolis On a theorem of Gel′fand and a new proof of the Orlicz-Pettis theorem. (Italian summary) **89h:46006**

Díaz Alcaide, Juan Carlos Unconditional bases in countable-$\mathscr{L}_1$ spaces. **89k:46007**

Giménez, I. (*with* López Molina, Juan Antonio) On weak and Schauder $\mathscr{F}$-bases in topological vector spaces. **89j:46007**

Gupta, Manjul γ-convergence and Schauder decompositions. **89f:46011**

Korobeĭnik, Yu. F. Absolutely representative families. (Russian) **89c:46007**

Lê Khai Hội Representing subspaces and effective representative systems. (Russian) **89h:46007**

López Molina, Juan Antonio *see* **Giménez, I., 89j:46007**

Metafune, Giorgio (*with* Moscatelli, Vincenzo Bruno) Nuclear Fréchet spaces with basis do not have the three-space property. **89c:46008**

— (*with* Moscatelli, Vincenzo Bruno) A twisted Fréchet space with basis. **89b:46010**

Moscatelli, Vincenzo Bruno *see* **Metafune, Giorgio, 89b:46010** *and* **89c:46008**

Pandey, G. S. Multiplier problems in locally convex spaces. **89f:46012**
Romanowicz, Z. Geometric structure of positive bases in linear spaces. **89h:46008**
Wójtowicz, Marek On the permutative equivalence of unconditional bases in F-spaces. **89j:46008**

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Ahun, T. *see* **Kolk, E., 89c:40007**
Boivin, Daniel Récurrence multiple et contractions linéaires. (English summary) [Multiple recurrence and linear contractions] **89b:60092**
El-Helaly, Sherif (*with* Husain, Taqdir) Orthogonal bases are Schauder bases and a characterization of Φ-algebras. **89e:46055**
Husain, Taqdir *see* **El-Helaly, Sherif, 89e:46055**
Jacak, Dorota Regular positive bases. **89m:52003**
Kolk, E. Summation of stretchings of sequences in locally convex spaces. (Russian. English summary) **89c:40006**
— (*with* Ahun, T.) Summability by scalar matrices in abstract spaces. (Russian. English summary) **89c:40007**
Krone, Jörg On projections in power series spaces and the existence of bases. **89f:46019**
Pérez-García, Cristina On compactoidity in non-Archimedean locally convex spaces with a Schauder basis. **89c:46099**
Tali, A. The interrelations between strong summability with rapidity and ordinary summability with rapidity in locally convex spaces. (Russian. English summary) **89e:40005**

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B30]

Alpay, Şafak A note on direct limits. (Turkish summary) **89g:46010**
Babev, V. D. Direct products of symmetrically locally uniformly convex spaces. (Russian) **89c:46009**
Buskes, G. J. H. M. The support of certain Riesz pseudonorms and the order-bound topology. **89f:46013**
Filter, Wolfgang On measure representations of Riesz spaces. **89m:46008**
— Inductive limits of Riesz spaces. **89k:46008**
Grobler, J. J. (*with* Labuschagne, C. C. A.) The tensor product of Archimedean ordered vector spaces. **89f:46014**
Jefferies, Brian Semicompact functionals. **89c:46010**
Kolbin, V. V. Optimization problems in semi-ordered spaces. (Russian. English and Azerbaijani summaries) **89f:46015**
Koldunov, A. V. Π-Dedekind extensions of vector lattices. (Russian) **89c:46011**
Kondakov, V. P. Discrete locally convex lattices and unconditional bases. (Russian) **89k:46009**
Labuschagne, C. C. A. *see* **Grobler, J. J., 89f:46014**
Law, C. K. *see* **Ng, Kung Fu, 89g:46012**
Martellotti, Anna (*with* Salvadori, Anna) A minimax theorem for functions taking values in a Riesz space. **89g:46011**
Murali, V. A linear order-bound topology. **89b:46011**
Ng, Kung Fu (*with* Law, C. K.) Monotonic norms in ordered Banach spaces. **89g:46012**
Salvadori, Anna *see* **Martellotti, Anna, 89g:46011**
Veksler, A. I. On a problem of A. G. Pinsker. (Russian) **89f:46016**
— Unbounded sets in extended K-spaces. (Russian) **89m:46009**
Wójtowicz, Marek On Cantor-Bernstein type theorems in Riesz spaces. **89c:46012**

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Alpay, Şafak On majorization of collectively compact operators. (Turkish summary) **89b:47055**
Bukhvalov, A. V. Nonlinear majorization of linear operators. **89m:47034**
Buskes, G. J. H. M. Extension of Riesz homomorphisms. III. **89c:47051**
Cătuneanu, Irina $\mathscr{P}$-bounded operator and $\mathscr{F}$-bounded operators. **89a:47057**
Constantinescu, Corneliu Some properties of spaces of measures (summary). **89c:46041**
Du, Yi Hong Total order minihedral cones. (Chinese. English summary) **89i:46022**
Isac, G. Supernormal cones and fixed point theory. **89d:90235**
Koldunov, A. V. Cantor-type completions of vector lattices. (Russian) **89g:06036**
Kusraev, A. G. Theorems of M. G. Kreĭn and G. Jameson. (Russian) **89m:47035**
Maličký, Peter A vector lattice variant of the ergodic theorem. **89e:28032**
Martellotti, Anna (*with* Salvadori, Anna) Positive continuous linear functionals on Riesz spaces and applications to minimax theorems. **89k:90188**
Noll, Dominikus A selection principle with applications in convex analysis and optimization. **89b:90168**
Peck, N. T. (*with* Talagrand, Michel) Banach sublattices of weak L_1. **89a:46045**
Pincket, J. A Hahn-Banach type theorem for Riesz modules over a commutative AW^*-algebra. **89b:46070**
Popovici, I. Mircea Operator spaces with the Riesz property. (Romanian. English summary) **89h:47061**
Rosenthal, Haskell P. On the Choquet representation theorem. **89j:46012**
Salvadori, Anna *see* **Martellotti, Anna, 89k:90188**
Schaefer, H. H. Dual characterization of order continuity and some applications. **89i:47069**
Shamaev, I. I. One-dimensional elements and their application in the representation of a lattice-ordered algebra. **89k:06016**
Talagrand, Michel *see* **Peck, N. T., 89a:46045**
Vuza, Dan Tudor On some results of Buskes, Dodds, de Pagter and Schep. **89d:47080**
— Strongly modular and strongly latticial classes of operators. **89f:47059**
Wickstead, A. W. Banach lattices with trivial centre. **89m:46030**
Zakharov, Valerii Konstantinovich Hyper-Stonean cover and second dual extension. **89f:46048**

46A45 Sequence spaces (including Köthe sequence spaces)

Ahmad, Z. U. (*with* Mursaleen) Köthe-Toeplitz duals of some new sequence spaces and their matrix maps. **89e:46006**
Ansari, Amir Ali *see* **Srivastava, J. K., 89j:46010**
Ariño, Miguel A. (*with* Eldeeb, Raouf; Peck, N. T.) The Lorentz sequence spaces $d(w,p)$ where w is increasing. **89i:46010**
Buntinas, Martin Products of sequence spaces. **89f:46017**
— (*with* Goes, Günther) Products of sequence spaces and multipliers. (Serbo-Croatian summary) **89d:46007**
Chen, Shu Tao *see* **Wu, Cong Xin, 89k:46013**
Crespo, Rafael Duality and barrelling in $\lambda_0(E)$. (Spanish. English summary) **89a:46021**
Eldeeb, Raouf *see* **Ariño, Miguel A.; et al., 89i:46010**
Fuentes Villalba, Fernando M. (*with* Hernández, Francisco L.) On weighted Orlicz sequence spaces and their subspaces. **89k:46010**
Galbis, Antonio Köthe sequence spaces with values in Fréchet or (DF)-spaces. **89k:46011**
García Lafuente, José M. On strong duals of uniformly $\lambda(P)$-nuclear spaces. **89i:46011**
Goes, Günther *see* **Buntinas, Martin, 89d:46007**
Hernández, Francisco L. *see* **Fuentes Villalba, Fernando M., 89k:46010**
Hombría Maté, Andrés Emilio ★ Sobre λ-sumabilidad absoluta y λ-nuclearidad. (Spanish) [On absolute λ-summability and λ-nuclearity] **89g:46013**
— λ-nuclear and compact mappings. (Spanish. English summary) **89m:46010**
Huang, Jin Sheng On the sequence space $\mathrm{Ces}_p(E)$. (Chinese. English summary) **89b:46012**
Kamthan, P. K. Nuclear operators and nuclear sequence spaces. **89d:46008**
Kocatepe, Mefharet An isomorphism theorem for Dragilev spaces. **89f:46018**
Krone, Jörg Bases in the range of operators between Köthe spaces. (Turkish summary) **89a:46022**
— On projections in power series spaces and the existence of bases. **89f:46019**
Lee, Peng Yee *see* **Wu, Bo Er; et al., 89h:46009**
Liu, Yu Qiang *see* **Wu, Bo Er; et al., 89h:46009**
Magee, James C. The β-dual of FK-spaces. **89j:46009**
Malkowsky, Eberhard Klassen von Matrixabbildungen in paranormierten FK-Räumen. (English summary) [Classes of matrix mappings in paranormed FK-spaces] **89a:46023**
Mursaleen *see* **Ahmad, Z. U., 89e:46006**
Nurlu, Zafer Embedding $\Lambda_\infty(\alpha)$ into $\Lambda_1(\alpha)$ and some consequences. **89b:46013**
— S_g spaces and vanishing of the functor Ext. **89e:46007**
Peck, N. T. *see* **Ariño, Miguel A.; et al., 89i:46010**
Pehlivan, S. A study of some incomplete paranormed spaces and related matrix transformations. **89k:46012**
Romero Marzal, Luis ★ Espacios $G_\infty(\lambda)$ y nuclearidad asociada. (Spanish) [$G_\infty(\lambda)$-spaces and associated nuclearity] **89g:46014**
Savaş, Ekrem Matrix transformations of some generalized sequence spaces. (Not in MR)
Srivastava, J. K. (*with* Ansari, Amir Ali) Köthe-Toeplitz duals and pre-duals of generalized Iyer's sequence spaces. **89j:46010**
Stehle, Stephen P. Projective tensor products and the Dunford-Pettis property. **89d:46009**
Tao, Liang De Smoothness of Orlicz sequence spaces. (Chinese. English summary) **89i:46012**
Wang, Ri Sheng The problem of isometric approximation in $B(m \to m)$. (Chinese) **89e:46008**
Wang, Ting Fu Packing constants of Orlicz sequence spaces. (Chinese) **89a:46024**
Wu, Bo Er (*with* Liu, Yu Qiang; Lee, Peng Yee) The second duals of the nonabsolute Cesàro sequence spaces. **89h:46009**
Wu, Cong Xin (*with* Chen, Shu Tao) Extreme points and rotundity of Orlicz-Musielak sequence spaces. **89k:46013**
Yadav, Sarjoo Prasad Some sequence spaces involving Jacobi polynomials. **89h:46010**

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Ahmad, Z. U. (*with* Mursaleen) An application of Banach limits. **89g:40004**
Bonet, José *see* **Maestre, Manuel, 89a:46083**
Choudhary, B. An extension of Knopp's core theorem. **89g:40005**
Cui, Yun An (*with* Wang, Ting Fu) Strong extreme points of Orlicz spaces. (Chinese) **89m:46053**
Das, Gokulananda Sublinear functionals and a class of conservative matrices. **89g:40013**
El-Helaly, Sherif (*with* Husain, Taqdir) Orthogonal bases are Schauder bases and a characterization of Φ-algebras. **89e:46055**
Godziewski, Andrzej On some interpolation groups with mixed norms. **89i:46075**
Hernández, Francisco L. (*with* Peirats, Vicente) Weighted sequence subspaces of Orlicz function spaces isomorphic to l^p. **89c:46044**
— (*with* Rodríguez-Salinas, Baltasar) On l^p-complemented copies in Orlicz spaces. **89f:46059**
Husain, Taqdir *see* **El-Helaly, Sherif, 89e:46055**
Kornilov, P. A. On conditionally convergent series of sequences and functions. (Russian) **89a:40001**
Köthe, Gottfried Duality of tensor products of converge[nce]-free spaces. **89c:46094**
Kwong, Man Kam (*with* Zettl, A.) Extremals in Landau's inequality for the difference operator. **89m:47027**
Lamp, Jüri (*with* Tali, A.) The summability with rapidity of generalized sequences in Banach spaces. (Russian. English summary) **89d:40007**
Langenbruch, Michael Bases in spaces of ultradifferentiable functions with compact support. **89g:46066**
Lee, Peng Yee *see* **Sy, Polly Wee; et al., 89g:46059** *and* **Liu, Yu Qiang, 89j:47018**
Liu, Yu Qiang (*with* Lee, Peng Yee) Infinite matrices of operators in nonabsolute sequence spaces. **89j:47018**
Maddox, I. J. Statistical convergence in a locally convex space. **89k:40012**
Maestre, Manuel Representations of the spaces $\mathscr{S}(\Omega, E)$ and $\mathscr{O}_M(\Omega, E)$. (Spanish. English summary) **89a:46082**
— (*with* Bonet, José) On the space $\mathscr{D}_{+F}(\Omega, E)$. (Spanish. English summary) **89a:46083**
Moral Medina, J. M. Operators on spaces of vector-valued infraperiodic sequences. I. (Spanish. English summary) **89i:47049**
— Operators on spaces of vector-valued infraperiodic sequences. II. (Spanish) **89i:47050**
Mursaleen *see* **Ahmad, Z. U., 89g:40004**
Musielak, Julian Approximation of elements of a generalized Orlicz sequence space by nonlinear, singular kernels. **89a:41028**
Nakamura, Akihiro Conditional bases in the sequence spaces $l^q(p)$. **89j:40006**

Ng, Peng Nung Matrix transformations on a pair of mutually associate spaces of a nonabsolutely type. **89a:40004**
Noll, Dominikus (*with* Stadler, Wolfgang) Zerlegungen von Wachstumsbereichen und Wirkfeldern für die Verfahren bewichteter Mittel. (English summary) [Decompositions of growth domains and action fields for the methods of weighted means] **89a:40005**
Peirats, Vicente On subspaces isomorphic to l^p in vector-valued Musielak-Orlicz sequence spaces. (Spanish. English summary) **89b:46054**
— *see also* **Hernández, Francisco L., 89c:46044**
Rodríguez-Salinas, Baltasar *see* **Hernández, Francisco L., 89f:46059**
Romero Marzal, Luis On absolutely $\Lambda(P)$- and $\Lambda(P,\lambda)$-summable mappings. (Spanish. English summary) **89h:47032**
Savaş, Ekrem Matrix transformations and absolute almost convergence. **89g:40010**
Stadler, Wolfgang *see* **Noll, Dominikus, 89a:40005**
Sy, Polly Wee (*with* Zhang, Wen Yao; Lee, Peng Yee) The dual of Cesàro function spaces. (Serbo-Croatian summary) **89g:46059**
Tali, A. *see* **Lamp, Jüri, 89d:40007**
Vogt, D. Tame spaces and power series spaces. **89i:46005**
Wang, Ting Fu *see* **Cui, Yun An, 89m:46053**
Wisła, Marek Continuity of the identity embedding of Musielak-Orlicz sequence spaces. **89h:46057**
Zettl, A. *see* **Kwong, Man Kam, 89m:47027**
Zhang, Wen Yao *see* **Sy, Polly Wee; et al., 89g:46059**

46A50 Compactness in topological linear spaces

Cascales, Bernardo (*with* Orihuela, J.) Compactness in locally convex spaces. **89j:46011**
Orihuela, J. *see* **Cascales, Bernardo, 89j:46011**

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Barceló, Miguel (*with* Canela, Miguel A.) Conditions of angelic type in function spaces. **89b:54022**
Canela, Miguel A. *see* **Barceló, Miguel, 89b:54022**
Schikhof, W. H. Compact-like sets in non-Archimedean functional analysis. **89a:46152**

46A55 Convexity, Choquet theory [see also 52A07]

Kalton, N. J. Compact convex sets and complex convexity. **89a:46025**
Rodríguez-Salinas, Baltasar Extremal integral representation. **89c:46013**
Rosenthal, Haskell P. On the Choquet representation theorem. **89j:46012**
— L^1-convexity. **89j:46013**
Ryff, John V. A problem in convexity leading to the analysis of two functional equations. **89d:46010**
Shapkin, I. V. Nonstandard characterization of a metrizable convex compact set with a closed extremal boundary in a locally convex space. (Russian) **89a:46026**
Teleman, Silviu On the boundary barycentric calculus. **89k:46014**
Tonev, T. V. Minimal affine boundaries of convex sets. **89f:46020**
van de Vel, Marcel Continuous position and existence sets. **89i:46013**

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Abouammoh, A. M. On discrete α-unimodality. **89j:60027a**
— Correction to: "On discrete α-unimodality". **89j:60027b**
Andrica, Dorin *see* **Pečarić, Josip E., 89k:26009**
Briem, Eggert Simplicial function spaces. **89c:46035**
Eifler, Larry Compactly generated cones. **89a:52009**
Ghoussoub, N. (*with* Godefroy, G.; Maurey, Bernard; Schachermayer, W.) Some topological and geometrical structures in Banach spaces. **89h:46024**
Godefroy, G. *see* **Ghoussoub, N.; et al., 89h:46024**
Kocić, Ljubiša M. (*with* Lacković, I. B.) Approximation in discrete cones of p-convexity. **89c:41023**
Lacković, I. B. *see* **Kocić, Ljubiša M., 89c:41023**
Lindenstrauss, Joram Some useful facts about Banach spaces. **89g:46015**
Luna, George Local connectedness of support points. **89c:46022**
Maurey, Bernard *see* **Ghoussoub, N.; et al., 89h:46024**
Noll, Dominikus Sandwich Theorem und offene Zerlegungen in schwach K-analytischen Banachräumen. [Sandwich theorem and open decompositions in weakly K-analytic Banach spaces] **89g:46044**
Pečarić, Josip E. (*with* Andrica, Dorin) Abstract Jessen's inequality for convex functions and applications. **89k:26009**
Raşa, I. Sets on which concave functions are affine and Korovkin closures. **89a:41045**
— Peak sets, proper faces and boundaries. **89g:46087**
Rosenthal, Haskell P. On the structure of nondentable closed bounded convex sets. **89g:46041**
Rüttimann, Gottfried T. (*with* Schindler, Christian) On σ-convex sets of probability measures. (Russian summary) **89d:46030**
Schachermayer, W. *see* **Ghoussoub, N.; et al., 89h:46024**
Schindler, Christian *see* **Rüttimann, Gottfried T., 89d:46030**
Sehgal, V. M. (*with* Singh, Sankatha Prasad; Smithson, R. E.) Nearest points and some fixed point theorems for weakly compact sets. **89h:47091**
Sersouri, Abderrazzak The Mazur property for compact sets. **89c:46026**
Singh, Sankatha Prasad *see* **Sehgal, V. M.; et al., 89h:47091**
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Sterna-Karwat, A. A note on cone-maximal and extreme points in topological vector spaces. **89b:49010**
Thomas, Erik G. F. Positive forms on nuclear $*$-algebras and their integral representations. **89m:46095**
Winkler, Gerhard Extreme points of moment sets. **89i:60037**

46A99 None of the above, but in this section

Antosik, P. On iterated and double limits. **89m:46011**
Dobrić, V. Analytically normed spaces. **89c:46014**
Ho, Yin *see* **Rizvi, S. M.; et al., 89a:46027**
Kotkowski, Bogdan (*with* Waszak, Aleksander) Some remarks on linear varieties. **89h:46011**
Rizvi, S. M. (*with* Ho, Yin; White, Albert George, Jr.) Weak 2-norms and 2-inner products. **89a:46027**
Suyalatu A class of quasi-n-normed spaces. (Chinese. English summary) **89m:46012**
Szmuksta, Maria The Orlicz-Pettis theorem in two-norm spaces. **89f:46021**
Waelbroeck, L. Quotient bornological spaces. **89m:46013**
Waszak, Aleksander *see* **Kotkowski, Bogdan, 89h:46011**
White, Albert George, Jr. *see* **Rizvi, S. M.; et al., 89a:46027**

Items with secondary classifications in 46A99

Blei, Ron C. Multilinear measure theory and the Grothendieck factorization theorem. **89d:28005**
Choi, Yun Sung A generalization of Cartan's uniqueness theorem on locally convex spaces. **89k:46059**
Cooper, J. B. ★ Saks spaces and applications to functional analysis. **89b:46002**
Dobrić, V. The law of large numbers in locally convex spaces. **89e:60065**
Ernst, Bruno On the uniqueness of weighted (DF)-topologies. **89b:46032**
Gali, I. M. (*with* Okb El-Bab, A. S.; Saleh, M.) On positive-definite invariant matrix kernels. **89c:47025**
Govindarajulu, P. On f-best simultaneous approximation in locally convex spaces. **89m:41014**
Grande, Zbigniew (*with* Natkaniec, Tomasz) Lattices generated by $\mathscr{T}$-quasicontinuous functions. (Russian summary) **89d:26005**
Hejcman, J. Topological vector group topologies for the real line. **89h:22008**
Klee, Victor Do infinite-dimensional Banach spaces admit nice tilings? **89h:52015**
Kominek, Z. On additive and convex functionals. (Serbo-Croatian summary) **89e:26029**
Lupşa, Liana I-points with respect to a given set. **89c:52004**
Lyubich, Yu. I. Coverings of a linear space by nontrivial subspaces. (Russian) **89f:15002**
Masani, P. R. On conditional homomorphisms and seminorms on Banach groups and the unification of operator theory and measure theory. **89j:46046**
van Mill, Jan Infinite-dimensional normed linear spaces and domain invariance. **89h:46033**
Namioka, I. Radon-Nikodým compact spaces and fragmentability. **89i:46021**
Natkaniec, Tomasz *see* **Grande, Zbigniew, 89d:26005**
Okb El-Bab, A. S. *see* **Gali, I. M.; et al., 89c:47025**
Pestov, V. G. Thin sets in topological groups and a new criterion for precompactness. (Russian) **89b:22002**
Ribarska, N. K. Internal characterization of fragmentable spaces. **89e:54063**
Saleh, M. *see* **Gali, I. M.; et al., 89c:47025**
Şerban-Tofan, Doina Operators on spaces with vector norm. (Romanian summary) **89f:47057**
Touré, Mamadouba Contribution aux espaces dénombrablement modulaires. Comparison des espaces généralisés X_ρ, X_{ρ_0} et X_{ρ_s}. [Contribution to the study of countably modular spaces. Comparison of the generalized spaces X_ρ, X_{ρ_0} and X_{ρ_s}] **89j:46029**

46Bxx Normed linear spaces and Banach spaces {For function spaces, see 46Exx.}

Lindenstrauss, Joram Some useful facts about Banach spaces. **89g:46015**
Pisier, Gilles (*with* Xu, Quan Hua) Random series in the real interpolation spaces between the spaces v_p. **89d:46011**
Prus, Stanisław Finite-dimensional decompositions of Banach spaces with (p,q)-estimates. **89d:46012**
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Haagerup, Uffe A new upper bound for the complex Grothendieck constant. **89f:47029**
Henson, C. Ward Infinitesimals in functional analysis. (*see* **89m:03060**)
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Raynaud, Y. (*with* Schütt, C.) Some results on symmetric subspaces of L_1. **89g:46057**
Schütt, C. *see* **Raynaud, Y., 89g:46057**

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Contemporary Mathematics ★ Banach space theory. **89i:46002**
Iowa City, IA ★ Banach space theory. **89i:46002**
Workshop:
  Banach Space Theory ★ Banach space theory. **89i:46002**

46B05 Topology in terms of the norms

Bourgain, J. (*with* Meyer, Mathieu; Milman, Vitali D.; Pajor, A.) On a geometric inequality. **89h:46012**
Li, Xiao Jian^1 Roughness and nondifferentiability of norms on Banach spaces. (Chinese) **89a:46028**
Meyer, Mathieu *see* **Bourgain, J.; et al., 89h:46012**
Milman, Vitali D. *see* **Bourgain, J.; et al., 89h:46012**
Pajor, A. *see* **Bourgain, J.; et al., 89h:46012**
Sersouri, Abderrazzak Renormage de certains espaces d'opérateurs. [Renorming some operator spaces] **89k:46015**
Tokarev, E. V. Injective Banach spaces in finite equivalence classes. (Russian) **89b:46014**
Trubnikov, Yu. V. The Hanner inequality and the convergence of iterative processes. (Russian) **89a:46029**

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Abreu, José Luis (*with* Alonso y Coria, Alberto) On a condition for a Banach space to be a Hilbert space. (Spanish) **89g:46045**

Alonso y Coria, Alberto *see* **Abreu, José Luis**, **89g:46045**
Induráin Eraso, Esteban (*with* Plans, A.; Reyes, Andrés) ★ Notas sobre geometría de sucesiones en espacios de Banach. (Spanish) [Notes on the geometry of sequences in Banach spaces] **89h:46016**
Ostrovskiĭ, M. I. A comparison between the weak and the continuous Banach-Saks properties. (Russian) **89b:46025**
Plans, A. *see* **Induráin Eraso, Esteban; et al.**, **89h:46016**
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Zhang, Wen Yao A new smoothness of Banach spaces. **89f:46025**

46B10 Duality and reflexivity

Bellenot, Steven F. More quasireflexive subspaces. **89a:46030**
— (*with* Haydon, Richard; Odell, Edward) Quasi-reflexive and tree spaces constructed in the spirit of R. C. James. **89m:46014**
Calvert, Bruce D. (*with* Fitzpatrick, Simon) Consequences of the duality map taking planes to planes. **89a:46031**
Deville, Robert (*with* Godefroy, G.; Hare, D. E. G.; Zizler, Václav E.) Phelps spaces and finite-dimensional decompositions. **89b:46015**
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Odell, Edward *see* **Bellenot, Steven F.; et al.**, **89m:46014**
Oja, Eve (*with* Reĭnov, O. I.) A counterexample to A. Grothendieck. (Russian. English and Estonian summaries) **89g:46016**
— A criterion for reflexivity. **89g:46017**
Ostrovskiĭ, M. I. w^*-derivatives of transfinite order of the subspaces of a conjugate Banach space. (Russian. English summary) **89b:46016**
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Schlüchtermann, Georg (*with* Wheeler, Robert F.) On strongly WCG Banach spaces. **89k:46016**
Sztencel, R. (*with* Zaremba, P.) Acknowledgment of priority to the paper: "On self-conjugate Banach spaces" [Colloq. Math. **44** (1981), no. 1, 111–115; MR 83b:46013]. **89k:46017**
Tingley, Daryl A characterization of nonreflexive Banach spaces. **89a:46032**
Valdivia, M. Banach spaces X with X^{**} separable. **89c:46015**
Werner, Elisabeth Quasi-Banach spaces which are unique predual. **89h:46013**
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Kadets, V. M. Bases with individual brackets and bases with individual permutations. (Russian) **89k:46018**
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Domanskiĭ, E. N. (*with* Kadets, V. M.) On the basis regularizability of inverse operators. **89k:47002**
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— Spaces of continuous functions isomorphic to a locally uniformly rotund Banach space. **89m:46017**
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Raynaud, Y. Finie représentabilité de $l^p(X)$ dans les espaces d'Orlicz. (English summary) [Finite representability of $l^p(X)$ in Orlicz spaces] **89c:46025**
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for a stable measure. **89k:46027**
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Takahashi, Yasuji (*with* Okazaki, Yoshiaki) On Banach spaces satisfying Grothendieck's theorem. **89f:46039**
Thakare, N. K. Geometry of Banach spaces: rough and very smooth norms, Asplund spaces and related topics. **89c:46028**
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Amir, D. Characterizations of inner product spaces. **89m:46032**
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– Convolution of operators and applications. **89i:47053**

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Arai, Hitoshi Bounded projections onto holomorphic Hardy spaces on planar domains. **89e:30060**

Byczkowski, T. RKHS for Gaussian measures on metric vector spaces. (Russian summary) **89c:46061**

Georgijević, Dušan R. Reproducing kernels and multiple interpolation by holomorphic functions. (Serbo-Croatian summary) **89g:30068**

Ligocka, Ewa The Bergman projection on harmonic functions. **89a:32024**

Machedon, Matei Szegő kernels on pseudoconvex domains with one degenerate eigenvalue. **89i:32043**

Manocha, H. L. Hilbert space structure on the solution space of Helmholtz equation. **89m:35054**

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46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, etc.)

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Villani, Alfonso On the metrizability of $L^p_{\mathrm{loc}}(\Omega, \mu)$. (Italian summary) **89c:46048**

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Xu, Quan Hua Espaces d'interpolation réels entre les espaces V_p: propriétés géométriques et applications probabilistes. [Real interpolation spaces between the spaces V_p: geometric properties and probabilistic applications] **89m:46059**

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— On the structure of Lorentz operator spaces. (Spanish. English summary) **89f:47068**

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Saloff-Coste, L. Théorèmes de Sobolev et inégalités de Trudinger sur certains groupes de Lie. (English summary) [Sobolev theorems and Trudinger inequalities on some Lie groups] **89h:22013**
Săndig, Anna-Margarete *see* **Kufner, A., 89h:35096**
Schrohe, Elmar Spaces of weighted symbols and weighted Sobolev spaces on manifolds. **89g:58200**
Seeger, Andreas Some inequalities for singular convolution operators in L^p-spaces. **89j:42015**
Shaposhnikova, T. O. The superposition operator in classes of multipliers of S. L. Sobolev spaces. (Russian) **89m:47067**
— Solvability of quasilinear elliptic equations in spaces of multipliers. (Russian) **89a:35091**
Sikhov, M. B. Embedding of certain classes of functions. (Russian. Kazakh summary) **89i:46033**
Sogge, C. D. *see* **Barceló, B.; et al., 89h:35048**
Strichartz, Robert S. Besicovitch meets Wiener-Fourier expansions and fractal measures. **89h:28015**
Temam, Roger *see* **Ghidaglia, Jean-Michel; et al., 89d:35137**
Temlyakov, V. N. Approximation by elements of a finite-dimensional subspace of functions in various Sobolev or Nikol′skiĭ classes. **89j:41026**
Tervo, J. On solvability of linear partial differential equations in local spaces $\mathscr{B}_{p,k}^{\mathrm{loc}}(G)$. (German and Russian summaries) **89h:35006**
Trebels, W. *see* **Dappa, H., 89c:42022**
Triebel, Hans Jenaer Beiträge zur Theorie der Funktionenräume. (English and Russian summaries) [Contributions from Jena on the theory of function spaces] **89a:46002**
Vespri, Vincenzo The functional space $C^{-1,\alpha}$ and analytic semigroups. **89f:35070**
Walsh, David *see* **Holland, Finbarr, 89m:30074**
Wheeden, Richard L. *see* **Gatto, A. Eduardo, 89m:26028**
Wik, Ingemar Note on a theorem by Reshetnyak-Gurov. **89d:26014**
Yabuta, Kôzô Singular integral operators on Triebel-Lizorkin spaces. **89g:47071**
— Singular integral operators on Besov spaces. **89f:47081**
Zhang, Gong An Some applications of the nonisotropic embedding theorem to degenerate second-order elliptic equations. (Chinese) **89c:35068**
Zheng, Xiao Min *see* **Bethuel, Fabrice, 89i:58015**
Ziemer, William P. *see* **Brothers, John E., 89g:26013** *and* **89m:42016**

46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables

Reznik, A. A. Sobolev spaces of functions on families of discrete sets. Trace theorems. **89m:46067**

Items with secondary classifications in 46E39

Wang, Ming^1 (*with* Zhang, Hong Qing^1) On the embedding and compact properties of finite element spaces. **89i:65125**
Zhang, Hong Qing^1 *see* **Wang, Ming^1, 89i:65125**

46E40 Spaces of vector- and operator-valued functions

Blasco De La Cruz, Oscar Boundary values of vector-valued functions in Orlicz-Hardy classes. **89a:46077**
– Boundary values of vector-valued harmonic functions considered as operators. **89c:46053**
– Boundary values of functions in vector-valued Hardy spaces and geometry on Banach spaces. **89f:46080**
– On the dual space of $H_B^{1,\infty}$. **89m:46068**
Bombal, Fernando Spaces of vector-valued continuous functions with the Dunford-Pettis property. (Spanish. English summary) **89b:46052**
– Weakly sequentially complete Orlicz spaces of vector functions. (Spanish. English summary) **89d:46038**
Bourgain, J. Vector-valued Hausdorff-Young inequalities and applications. **89m:46069**
Bukhvalov, A. V. Some Banach properties of spaces of measurable vector-valued functions. (Russian) **89e:46040**
Cambern, Michael (*with* Greim, P.) Mappings of continuous functions on hyper-Stonean spaces. **89f:46081**
– (*with* Greim, P.) Spaces of continuous vector functions as duals. **89e:46041**
Chiacchio, Ary O. *see* **Prolla, João B.; et al., 89f:46085**
Dinh Quang Lu'u The best Pettis approximations in L_E^1. (Vietnamese. English summary) **89a:46078**
Faour, N. A factorization theorem for Bergman spaces. **89c:46054**
Galindo, Pablo (*with* Maestre, Manuel) Representation of the spaces $\mathscr{C}_F^k(V,E)$ and $\mathscr{D}_F^k(V,E)$ $(1\le k\le\infty)$. (Spanish. English summary) **89g:46073**
García López, Alfonsa The space $L^1(\mu,E)$. (Spanish. English summary) **89m:46070**
Gavrilă, M. A characterization of strongly exposed points in vector-valued function spaces. **89k:46053**
Greim, P. (*with* Jamison, J. E.) Hilbert spaces have the strong Banach-Stone property for Bochner spaces. **89m:46071**
— *see also* **Cambern, Michael, 89e:46041** *and* **89f:46081**
Guseĭnov, F. V. Characterization of finite-dimensional subspaces of spaces of continuous and measurable bounded vector-valued functions. (Russian. English and Azerbaijani summaries) **89d:46039**
Haydon, Richard On the structure of the space $L_{p,*}(\mu;Y^*)$ of weak* p-integrable functions. **89m:46072**
Hensgen, Wolfgang On complementation of vector-valued Hardy spaces. **89f:46082**
Hueso, José L. (*with* Motos, Joaquín) A note on Baire-hyperplane spaces. (Spanish. English summary) **89d:46040**
— (*with* Motos, Joaquín) On $\mathscr{T}_{\mathscr{B}}$-local sequential barrelling in vector-valued continuous function spaces equipped with the topology of pointwise convergence. (Spanish. English summary) **89e:46042**
Jamison, J. E. *see* **Greim, P., 89m:46071**
Kallman, Robert R. Subseries and category. **89g:46074**
Khalil, R. Best approximation in L^1. **89e:46043**
Khan, Liaqat Ali On seminorm separability for vector-valued function spaces. **89m:46073**
Khurana, Surjit Singh Weak compactness in L_E^1. **89i:46041**
Kurc, Wiesław Strongly exposed points in Orlicz spaces of vector-valued functions. I. **89b:46053**
Maestre, Manuel *see* **Galindo, Pablo, 89g:46073**
Mastyło, M. Notes on interpolation by the real method between $C(T,A_0)$ and $C(T,A_1)$. **89h:46055**
Motos, Joaquín *see* **Hueso, José L., 89d:46040** *and* **89e:46042**
Musielak, Anna A note on Lorentz spaces with Orlicz-type metrics. **89f:46083**
Nakanishi, Shizu On topological structures of spaces $C([0,1],X)$ and $C([0,\infty),X)$. III. **89f:46084**
Nan, Chao Xun *see* **Wang, Jian Hua^3, 89m:46074**
Nguyễn Hong Thai *see* **Zabreĭko, P. P., 89c:46056**
Peirats, Vicente On subspaces isomorphic to l^p in vector-valued Musielak-Orlicz sequence spaces. (Spanish. English summary) **89b:46054**
Pombo, Dinamérico P., Jr. On the Bolzano-Weierstrass property of certain function spaces. **89h:46056**
Prolla, João B. (*with* Chiacchio, Ary O.; Roversi, Maria Sueli M.) Chebyshev centers in spaces of continuous functions. **89f:46085**
Roversi, Maria Sueli M. *see* **Prolla, João B.; et al., 89f:46085**
Ruess, W. (*with* Summers, W. H.) Compactness in spaces of vector valued continuous functions and asymptotic almost periodicity. **89k:46054**
Schmets, Jean (*with* Zafarani, Jafar) Strict topologies and (gDF)-spaces. **89a:46079**
Simon, Jacques Compact sets in the space $L^p(0,T;B)$. **89c:46055**
Summers, W. H. *see* **Ruess, W., 89k:46054**
Wang, Jian Hua^3 (*with* Nan, Chao Xun) Fréchet differentiable points in Bochner function spaces $L_p(\mu,X)$. **89m:46074**
Wisła, Marek Continuity of the identity embedding of Musielak-Orlicz sequence spaces. **89h:46057**
Zabreĭko, P. P. (*with* Nguyễn Hong Thai) A class of Orlicz spaces of vector functions. (Russian) **89c:46056**
Zafarani, Jafar Strict topologies and (DF)-spaces. **89h:46058**
— *see also* **Schmets, Jean, 89a:46079**

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Babev, V. D. Direct products of symmetrically locally uniformly convex spaces. (Russian) **89c:46009**
— Characterization of the denting points of direct products of normed spaces. (Russian) **89i:46015**
Bardaro, Carlo A characterization of Banach spaces that are normed in the strong sense, and the variation of vector-valued functions. (Italian) **89b:46021**
Bjon, Sten Differentiation under the integral sign and holomorphy. **89b:46062**
Bonet, José *see* **Maestre, Manuel, 89a:46083**
Bressan, Alberto (*with* Colombo, Giovanni) Extensions and selections of maps with decomposable values. **89j:54021**
Chakalov, Vladimir L. Extremal elements of normed spaces and some related extremal problems. I. (Russian) **89b:41040**
Colombo, Giovanni *see* **Bressan, Alberto, 89j:54021**
Dhar, R. K. (*with* Vasudeva, H. L.) Characterisations of multipliers of $L_1(I,X)$. **89g:46086**
Emmanuele, Giovanni On weak compactness in Banach spaces of E-valued measures and E-valued Bochner integrable functions, when E has an unconditional Schauder decomposition. **89k:46039**
Fernandez, Dicesar Lass Interpolation of 2^d Banach spaces and the Calderón spaces $X(E)$. **89f:46134**
Galbis, Antonio Köthe sequence spaces with values in Fréchet or (DF)-spaces. **89k:46011**
García López, Alfonsa Operators on locally convex spaces of vector-valued continuous functions. **89b:47045**
Hensgen, Wolfgang Operatoren $H^1\to X$. (English summary) [Operators $H^1\to X$] **89a:47045**
Isakov, N. M. (*with* Mukamba, F.) Anisotropic analogue of the Whitney extension theorem. **89j:46035**
Kalton, N. J. Harmonic functions in non-locally convex spaces. **89i:31011**
Kouba, Omran L'application canonique $J\colon \tilde{H}^2(X)\hat{\otimes}\tilde{H}^2(X)\to\tilde{H}^1(X\hat{\otimes}X)$ n'est pas surjective en général. (English summary) [The natural map $J\colon \tilde{H}^2(X)\hat{\otimes}\tilde{H}^2(X)\to\tilde{H}^1(X\hat{\otimes}X)$ is not onto in general] **89m:46112**
Maestre, Manuel Representations of the spaces $\mathscr{S}(\Omega,E)$ and $\mathscr{O}_M(\Omega,E)$. (Spanish. English summary) **89a:46082**
— (*with* Bonet, José) On the space $\mathscr{D}_{+F}(\Omega,E)$. (Spanish. English summary) **89a:46083**
Mukamba, F. *see* **Isakov, N. M., 89j:46035**
Na, Qi Yuan Isometries of certain spaces. (Chinese. English summary) **89m:46056**

Păltineanu, G. A generalization of the Stone-Weierstrass theorem for cones of functions. (Romanian. English summary) **89d:46028**
Płuciennik, Ryszard (*with* Wisła, Marek) Linear functionals on some nonlocally convex generalized Orlicz spaces. **89i:46031**
Schmeisser, H.-J. Vector-valued Sobolev and Besov spaces. **89h:46053**
Vasudeva, H. L. *see* **Dhar, R. K., 89g:46086**
Wisła, Marek *see* **Płuciennik, Ryszard, 89i:46031**

46E99 None of the above, but in this section

Babenko, V. F. Approximate calculation of scalar products. **89g:46075**
Dechevski, L. T. τ-moduli and interpolation. **89k:46055**
Godefroy, G. (*with* Pelant, Jan; Whitfield, J. H. M.; Zizler, Václav E.) Banach space properties of Ciesielski-Pol's $C(K)$ space. **89i:46042**
Korobeĭnik, Yu. F. Some problems in the theory of representative systems. (Russian) (*see* **89j:00035**)
Pelant, Jan *see* **Godefroy, G.; et al., 89i:46042**
Saloff-Coste, L. Fonctions maximales sur certains groupes de Lie. (English summary) [Maximal functions on some Lie groups] **89a:46080**
Shvartsman, P. A. Traces of functions of Zygmund class. (Russian) **89a:46081**
Siddiqi, Jamil A. Sur les classes de fonctions différentiables fermées par passage à l'inverse. (English summary) [On inverse closed classes of differentiable functions] **89h:46059**
Vodop'yanov, S. K. Quasielliptic L_p-theory of potential and its applications. **89f:46086**
Whitfield, J. H. M. *see* **Godefroy, G.; et al., 89i:46042**
Xiao, Zheng Chu The duality of the atomic Hardy spaces H^1_Φ and the spaces BMO_Ψ with weighted Orlicz norms. (Chinese. English summary) **89i:46043**
Zizler, Václav E. *see* **Godefroy, G.; et al., 89i:46042**

Items with secondary classifications in 46E99

Bergh, Jöran Functions of bounded mean oscillation and Hausdorff-Young type theorems. **89i:42011**
Bierstone, Edward (*with* Milman, Pierre D.) Local analytic invariants and splitting theorems in differential analysis. **89g:58021**
Bloom, Walter R. (*with* Fournier, John J. F.) Generalized Lipschitz spaces on Vilenkin groups. **89a:43013**
Bourgain, J. (*with* Lindenstrauss, Joram; Milman, Vitali D.) Minkowski sums and symmetrizations. **89g:46025**
Chernyaev, A. P. Fundamental solutions of differential equations of a certain class in anisotropic spaces of generalized functions. **89h:35071**
Dąbrowski, Romuald On a natural connection between the entropy spaces and Hardy space $\mathrm{Re}\,H^1$. **89m:42007**
Dineen, S. (*with* Klimek, Maciej; Timoney, R. M.) Biholomorphic mappings and Banach function modules. **89j:46049**
Drury, S. W. Estimates for a multilinear form on the sphere. **89m:42011**
Fang, Gen Sun Some extremal problems on W^rH^w. (Chinese. English summary) **89e:41044**
Feichtinger, Hans G. An elementary approach to Wiener's third Tauberian theorem for the Euclidean n-space. **89i:42023**
Fominykh, M. A. Admissible changes of variables in the class of BMO functions. **89k:42021**
Fournier, John J. F. *see* **Bloom, Walter R., 89a:43013**
Gologan, Radu-Nicolae Ergodic theorems in σ-lattice cones. **89g:28031**
Gorgadze, Z. G. On Bessel potentials in linear spaces. **89h:46070**
Holá, Ľ. On relations approximated by continuous functions. **89e:54031**
Holzer, Silvano (*with* Sempi, Carlo) A remark on metrics for finitely additive distribution functions. **89c:60015**
Isaza, Pedro Representability of $V[h]$ as intersection of Λ-bounded variation classes. **89k:26005**
Kerman, R. A. (*with* Sawyer, Eric T.) Carleson measures and multipliers of Dirichlet-type spaces. **89i:30044**
Klimek, Maciej *see* **Dineen, S.; et al., 89j:46049**
Korenblum, Boris Une forme plus précise d'un théorème de Kolmogorov. (English summary) [A sharper form of a theorem of Kolmogorov] **89f:30046**
Li, Chong A note on subadditive functionals. (Chinese. English summary) **89b:46006**
Li, Wu Characterization for continuous selection and its applications in multivariable approximation. **89m:41020**
Lindenstrauss, Joram *see* **Bourgain, J.; et al., 89g:46025**
Lyamin, A. G. An estimate for the spectral radius of an inner superposition operator in the space of functions of bounded variation. (Russian) (*see* **89b:00008**)
Mikolás, M. Über eine Klasse verallgemeinerter Hilberträume mit Anwendungen. [On a class of generalized Hilbert spaces with applications] **89h:65070**
Milman, Pierre D. *see* **Bierstone, Edward, 89g:58021**
Milman, Vitali D. *see* **Bourgain, J.; et al., 89g:46025**
Mussmann, Dieter Generating systems for L-spaces with applications to sufficiency. **89c:62009**
Okuyama, Akihiro On a topology of the set of real measure functions. **89e:28019**
Onneweer, C. W. (*with* Quek, T. S.) Multipliers on weighted L_p-spaces over locally compact Vilenkin groups. **89g:43004**
Pisier, Gilles (*with* Xu, Quan Hua) Random series in the real interpolation spaces between the spaces v_p. **89d:46011**
Pombo, Dinamérico P., Jr. Completion of spaces of homogeneous polynomials. **89f:46141**
Quek, T. S. *see* **Onneweer, C. W., 89g:43004**
Rodríguez Marín, Luis Approximations of differentiable functions in locally convex spaces. **89g:46080**
Salvadori, Anna Some convergence results with applications to a class of variational inequalities. **89m:49026**
Samotij, Krzysztof A counterexample to an F. and M. Riesz-type theorem. **89f:30071**
Sawyer, Eric T. *see* **Kerman, R. A., 89i:30044**
Sempi, Carlo *see* **Holzer, Silvano, 89c:60015**
Sledd, William T. A note on L^p spaces of harmonic functions. **89i:31008**
Timoney, R. M. *see* **Dineen, S.; et al., 89j:46049**
Venkatesh, Y. V. Riesz-Thorin theorem and l_p-stability of nonlinear time-varying discrete systems. **89k:39010**
Vodop'yanov, V. V. Interpolation of the intersections of spaces of quasilinearizable pairs. **89i:46077**
Weit, Yitzhak Spectral analysis in spaces of continuous functions. **89f:43009**
Xu, Quan Hua Inégalités pour les martingales de Hardy et renormage des espaces quasi-normés. (English summary) [Inequalities for Hardy martingales and renorming of quasinormed spaces] **89k:46029**
— *see also* **Pisier, Gilles, 89d:46011**
Yamashita, Shinji Subharmonicity for areal Bloch-function criteria. **89d:30039**
Yu, Shu Mo Multipliers with pseudomeasures as values. (Chinese. English summary) **89b:43003**

Items with secondary classifications in 46E99

Ablaeva, S. G. A multi-element boundary value problem in a space of generalized functions. (Russian) (Not in MR)

46Fxx Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx.}

Misra, O. P. Some important results of distribution theory. (*see* **89i:00025**)

Items with secondary classifications in 46Fxx

Marple, S. Lawrence, Jr. ★ Digital spectral analysis with applications. **89c:93001**
(Pap, Endre) *see* **Generalized functions, convergence structures, and their applications, 89i:00025**
(Pilipović, Stevan) *see* **Generalized functions, convergence structures, and their applications, 89i:00025**
Rosinger, Elemér E. ★ Generalized solutions of nonlinear partial differential equations. **89g:35001**
(Stanković, B.) *see* **Generalized functions, convergence structures, and their applications, 89i:00025**
(Vladimirov, V. S.) *see* **Generalized functions, convergence structures, and their applications, 89i:00025**

Items listed otherwise than by author

Conference:
  Generalized Functions, Convergence Structures, and their Applications ★ Generalized functions, convergence structures, and their applications. **89i:00025**
Dubrovnik ★ Generalized functions, convergence structures, and their applications. **89i:00025**
Generalized functions, convergence structures, and their applications ★ Generalized functions, convergence structures, and their applications. **89i:00025**

46F05 Topological linear spaces of test functions and distributions

Abdullah, Saleh On the spaces of convolution operators and multipliers in $\mathscr{K}'_M$. (Arabic summary) **89m:46075**
Asam, Lilian Translation-invariant linear forms on $\mathscr{E}'(G)$ and non-Liouville tuples on G. **89e:46044**
Bonet, José *see* **Maestre, Manuel, 89a:46083**
Bosch, Carlos (*with* Kucera, Jan) A note on the spaces $\mathfrak{D}_M$ and $\mathfrak{D}'_M$. **89g:46076**
Jelínek, Jiří (*with* Krtouš, Zdeněk) Les distributions intégrables sur un ouvert de $\mathbf{R}^N$. [Integrable distributions on an open set in $\mathbf{R}^N$] **89f:46087**
Krtouš, Zdeněk *see* **Jelínek, Jiří, 89f:46087**
Kucera, Jan *see* **Bosch, Carlos, 89g:46076**
Maestre, Manuel Representations of the spaces $\mathscr{S}(\Omega, E)$ and $\mathscr{O}_M(\Omega, E)$. (Spanish. English summary) **89a:46082**
— (*with* Bonet, José) On the space $\mathscr{D}_{+F}(\Omega, E)$. (Spanish. English summary) **89a:46083**
Metello de Nápoles, Suzana Sur certains espaces de fonctions dans les groupes localement compacts. [On certain functions spaces in locally compact groups] **89a:46084**
Petzsche, Hans-Joachim On E. Borel's theorem. **89m:46076**
Pilipović, Stevan Tempered ultradistributions. (Italian summary) **89f:46088**
Radzhabov, È. L. A systematization of Zemanian spaces. (Russian. Tajiki summary) **89h:46060**
Shen, You Feng Characterizations of $H^p(K^n)$ space. (Chinese summary) **89m:46077**
Stanković, B. Characterization of some subspaces of (D') by S-asymptotic. **89b:46055**
Taguchi, Yoshiko The universality of the spaces of ultradistributions $\mathscr{E}_s(\mathbf{T})^\wedge$, $\mathscr{E}_{(s)}(\mathbf{T})^\wedge$ $(0 < s \leq \infty)$, $\mathscr{E}_0(\mathbf{T})^\wedge$ and $\mathrm{Exp}(\mathbf{C}^\times)^\wedge$. **89c:46057**
— Fourier coefficients of periodic functions of Gevrey classes and ultradistributions. **89d:46041**

Items with secondary classifications in 46F05

Chen, Hua Paley-Wiener type theorems for Gevrey function classes and ultradistributions, and their applications. (Chinese. English summary) **89j:46041**
Chernyaev, A. P. Fundamental solutions of differential equations of a certain class in anisotropic spaces of generalized functions. **89j:35045**
Feichtinger, Hans G. Banach spaces of distributions defined by decomposition methods. II. **89a:46053**
— (*with* Gröchenig, Karlheinz) A unified approach to atomic decompositions via integrable group representations. **89h:46035**
Frazier, Michael (*with* Jawerth, Björn) The φ-transform and applications to distribution spaces. **89g:46064**
Gröchenig, Karlheinz *see* **Feichtinger, Hans G., 89h:46035**
Ivanov, Valentin Konstantinovich Hadamard conditions for well-posedness in spaces of generalized functions. (Russian) **89c:35150**

Jawerth, Björn *see* **Frazier, Michael, 89g:46064**
Langenbruch, Michael Bases in spaces of ultradifferentiable functions with compact support. **89g:46066**
Matsuzawa, Tadato Hypoellipticity in ultradistribution spaces. **89c:35029**
O, Yong Guk On some fundamental equations and inequations in $\mathring{\mathscr{D}}_p(\Omega)$ and $\mathring{W}^1_p(\Omega)$. (Korean. English summary) **89b:35138**
Pérez-Abreu, Víctor Decompositions of semimartingales on $\mathscr{S}'$. **89i:60101**
Pilipović, Stevan On regular $\mathscr{K}'\{M_p\}$-distributions. **89d:46045**
— Boundary value representation for a class of Beurling ultradistributions. **89i:46049**
Radzhabov, È. L. The space of Zemanian distributions. (Russian. Tajiki summary) **89g:46078**
Tervo, J. On solvability of linear partial differential equations in local spaces $\mathscr{B}^{\mathrm{loc}}_{p,k}(G)$. (German and Russian summaries) **89h:35006**
Valdivia, M. (F)-spaces and strict (LF)-spaces. **89e:46005**
Ziemian, Bogdan The Mellin transformation and microlocal singularities of distributions. **89e:44005**

46F10 Operations with distributions

Abdullah, Saleh Solvability of convolution equations in K'_M. **89h:46061**
Akhmedov, Sh. A. A property of functionals defined on an n-dimensional complex space of infinitely differentiable functions. (Russian. Tajiki summary) **89f:46089**
Avanissian, Vazgain Fonctionnelles analytiques liées aux polynômes orthogonaux classiques. (English summary) [Analytic functionals associated to classical orthogonal polynomials] **89i:46044**
Berg, Lothar New relations in a commutative differential algebra. **89h:46062**
Colombeau, J.-F. Generalized functions; multiplication of distributions; applications to elasticity, elastoplasticity, fluid dynamics and acoustics. (*see* **89i:00025**)
— (*with* LeRoux, A. Y.) Multiplications of distributions in elasticity and hydrodynamics. **89b:46056**
Estrada, Ricardo (*with* Kanwal, R. P.) Higher order fundamental forms of a surface and their applications to wave propagation and generalized derivatives. **89i:46045**
Ferreira, J. Campos Sur une définition de la valeur d'une distribution en un point et son application au problème de Cauchy. [On a definition of the value of a distribution at a point and its application to the Cauchy problem] **89a:46085**
Fisher, Brian Products of distributions defined by a vector. **89a:46086**
— (*with* Li, Zhi Shen) On changing the variable in distributions. **89f:46090**
— (*with* Kuribayashi, Yukio) Neutrices and the beta function. **89e:46045**
— (*with* Takači, A.) On α-products of distributions. (Serbo-Croatian summary) **89d:46042**
— Neutrices and the convolution of distributions. (Serbo-Croatian summary) **89d:46043**
— (*with* Takači, A.) Some results on α-products of distributions. **89h:46063**
Kanwal, R. P. *see* **Estrada, Ricardo, 89i:46045**
Keiter, H. F. G. Simple applications of generalized functions in theoretical physics: the case of many-body perturbation expansions. (*see* **89i:00025**)
Kessler, Christoph On hyperfinite representations of distributions. **89b:46057**
Kim, A. V. On a problem of multiplication of linear functionals and generalized functions. **89i:46046**
Koranne, P. S. *see* **Tiwari, A. K., 89k:46058**
Kuribayashi, Yukio *see* **Fisher, Brian, 89e:46045**
LeRoux, A. Y. *see* **Colombeau, J.-F., 89b:46056**
Li, Zhi Shen *see* **Fisher, Brian, 89f:46090**
Meise, Reinhold (*with* Taylor, B. Alan; Vogt, D.) Equivalence of slowly decreasing conditions and local Fourier expansions. **89c:46058**
Oberguggenberger, Michael Products of distributions: nonstandard methods. (German and Russian summaries) **89k:46056**
Persson, Jan The Cauchy problem for linear distribution differential equations. **89d:46044**
Pilipović, Stevan Remarks on supports of distributions. (Serbo-Croatian summary) **89i:46047**
— On regular $\mathscr{K}'\{M_p\}$-distributions. **89d:46045**
Rafikov, F. Z. The space of generalized functions X'_r, and singular differential equations. (Russian) **89a:46087**
Stanković, B. The S-asymptotic and other definitions of the asymptotic behavior of distributions. (Serbo-Croatian summary) **89f:46091**
— S-asymptotic of distributions. **89k:46057**
— S-asymptotic expansion of distributions. **89j:46040**
Takači, A. *see* **Fisher, Brian, 89d:46042** *and* **89h:46063**
Taylor, B. Alan *see* **Meise, Reinhold; et al., 89c:46058**
Tiwari, A. K. (*with* Koranne, P. S.) The delta distribution and the change of variable. **89k:46058**
rione, Susana Elena On some distributional multiplicative products. **89b:46058**
Vogt, D. *see* **Meise, Reinhold; et al., 89c:46058**
Wawak, Ryszard Improper integrals of distributions. **89a:46088**
— On the value of a distribution at a point. **89m:46078**
— The regularity of convolution and restriction of distributions. **89h:46064**
Ziemian, Bogdan Taylor formula for distributions. **89h:46065**

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bdullah, Saleh On the spaces of convolution operators and multipliers in $\mathscr{K}'_M$. (Arabic summary) **89m:46075**
leksandrov, E. L. Spectral properties of convolution and close-to-convolution operators. (Russian) **89g:47031**
erenstein, Carlos A. (*with* Struppa, Daniele) A remark on: "Convolutors in spaces of holomorphic functions" [*Complex analysis, II* (College Park, Md., 1985–86), 253–275, Lecture Notes in Math., 1276, Springer, Berlin, 1987; MR 89e:32003] by A. Meril and Struppa. **89e:32004**
— (*with* Struppa, Daniele) Solutions of convolution equations in convex sets. **89c:32006**
leyer, A. A new construction of continuous endomorphisms of the operator field. **89m:44015**
ronshtein, M. D. Division theorems in spaces of functions of finite smoothness and in Gevrey spaces. (Russian) **89f:58018**
Carton-Lebrun, C. A real variable definition of the Hilbert transform on $\mathscr{D}'$ and $\mathscr{S}'$. **89m:46079**
Chernyaev, A. P. Fundamental solutions of differential equations of a certain class in anisotropic spaces of generalized functions. **89h:35071**
Dickson, D. G. Factoring functions of exponential type with restrictions bounded on a line. (French summary) **89d:30032**
Esquível, Manuel L. ★ Sur la méthode des séries de Fourier dans les équations différentielles à coefficients constants. (French) [The Fourier-series method in differential equations with constant coefficients] **89m:34010**
Feichtinger, Hans G. An elementary approach to Wiener's third Tauberian theorem for the Euclidean n-space. **89i:42023**
Frolov, F. F. Boundary value problems for systems of stochastic partial differential equations. **89k:60082**
Gabbasov, N. S. On the approximate solution of a Fredholm integral equation of the first kind in a space of generalized functions. (Russian) (*see* **89c:00005**)
Gorodetskiĭ, V. V. The periodic Cauchy problem for an equation of parabolic type in classes of generalized functions. (Russian) **89f:35098**
— A method of summation of Gauss-Weierstrass type of multiple Fourier series in spaces of generalized functions. **89j:42012**
Ibadov, N. V. An approximation problem for the convolution equation in a space of analytic functions. (Russian) **89b:30031**
Ikromov, I. A. Reconstruction of a function from spherical means. (Russian) **89i:44002**
Kanwal, R. P. *see* **Krall, A. M.; et al., 89a:34040**
Koh, E. L. The Cauchy functional equations in distributions. **89k:39015**
Krall, A. M. (*with* Kanwal, R. P.; Littlejohn, L. L.) Distributional solutions of ordinary differential equations. **89a:34040**
Kushnir, R. M. (*with* Prikarpat·skiĭ, A. K.) Conditions for the existence of fundamental solutions of ordinary differential equations in a class of generalized functions. (Russian. English summary) **89a:34008**
Littlejohn, L. L. *see* **Krall, A. M.; et al., 89a:34040**
Lyamin, A. G. On the problem of an inner superposition operator in a space of generalized functions. (Russian) (*see* **89c:00008**)
Megretskiĭ, A. V. Generalized processes in linear-quadratic optimal control problems. **89k:49006**
Meise, Reinhold (*with* Taylor, B. Alan) Each nonzero convolution operator on the entire functions admits a continuous linear right inverse. **89g:47036**
Meril, A. (*with* Struppa, Daniele) Convolutors in spaces of holomorphic functions. **89e:32003**
— *see also* **Berenstein, Carlos A., 89e:32004**
Muro, Masakazu Singular invariant tempered distributions on regular prehomogeneous vector spaces. **89d:22010**
Oberguggenberger, Michael Systèmes hyperboliques à coefficients discontinus: solutions généralisées et une application à l'acoustique linéaire. [Hyperbolic systems with discontinuous coefficients: generalized solutions and an application to linear acoustics] **89h:35189**
Parenti, Cesare (*with* Tahara, Hidetoshi) Asymptotic expansions of distribution solutions of some Fuchsian hyperbolic equations. **89h:35062**
Prikarpat·skiĭ, A. K. *see* **Kushnir, R. M., 89a:34008**
Shabani, J. Finitely many δ interactions with supports on concentric spheres. **89e:81025**
Shah, Swarupchand M. (*with* Wiener, Joseph) Existence theorems for analytic solutions of differential and functional-differential equations. **89i:34006**
Sickel, Winfried On pointwise multipliers in Besov-Triebel-Lizorkin spaces. **89g:46070**
Stanković, B. Characterization of some subspaces of (D') by S-asymptotic. **89b:46055**
Struppa, Daniele *see* **Berenstein, Carlos A., 89c:32006; Meril, A., 89e:32003** *and* **Berenstein, Carlos A., 89e:32004**
Tahara, Hidetoshi *see* **Parenti, Cesare, 89h:35062**
Taylor, B. Alan *see* **Meise, Reinhold, 89g:47036**
Tomić, Miloš Sur le problème de saturation des intégrales singulières dans un espace de fonctions. [The saturation problem for singular integrals in a function space] **89k:41030**
Uchikoshi, Keisuke Symbol theory of microlocal operators. **89k:58267**
Vladimirov, V. S. The Wiener-Hopf equation in the Nevanlinna and Smirnov algebras and ultra-distributions. (*see* **89i:00025**)
— The Wiener-Hopf equation in Nevanlinna and Smirnov algebras. **89a:45012**
Wiener, Joseph *see* **Shah, Swarupchand M., 89i:34006**

46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

Carton-Lebrun, C. A real variable definition of the Hilbert transform on $\mathscr{D}'$ and $\mathscr{S}'$. **89m:46079**
Chen, Hua Paley-Wiener type theorems for Gevrey function classes and ultradistributions, and their applications. (Chinese. English summary) **89j:46041**
Córdoba, Antonio La formule sommatoire de Poisson. (English summary) [The Poisson summation formula] **89c:46059**
Drozhzhinov, Yu. N. *see* **Vladimirov, V. S.; et al., 89j:46043**
Ghosh, Badal Chandra (*with* Sinha, Sunil Kumar^1) The n-dimensional Hankel transformation of certain distributions of rapid growth. **89g:46077**
Glaeske, Hans-Jürgen (*with* Hess, Albrecht) On the convolution theorem of the Mehler-Fock-transform for a class of generalized functions. II. **89j:46042**
Hess, Albrecht *see* **Glaeske, Hans-Jürgen, 89j:46042**
Kim, Sung Ki Asymptotic behavior of a generalized Fourier-Laplace transform. **89i:46048**
Méndez Pérez, José Manuel A mixed Parseval equation and the generalized Hankel transformations. **89h:46066**
Nikolić-Despotović, D. (*with* Pilipović, Stevan) The quasiasymptotic of distributions and the distributional Stieltjes transformation. (Serbo-Croatian summary) **89f:46092**
Pathak, R. S. Orthogonal series representations for generalized functions. **89c:46060**
Pilipović, Stevan Asymptotic behaviour of the distributional Weierstrass transform. **89a:46090**
— (*with* Stanković, B.) Abelian theorem for the distributional Stieltjes transform. (German and Russian summaries) **89a:46089**

— *see also* **Nikolić-Despotović, D., 89f:46092**
Radzhabov, È. L. The space of Zemanian distributions. (Russian. Tajiki summary) **89g:46078**
Sinha, Sunil Kumar[1] On two new characterizations of the K transform for distributions. **89d:46046**
— *see also* **Ghosh, Badal Chandra, 89g:46077**
Stanković, B. *see* **Pilipović, Stevan, 89a:46089**
Vladimirov, V. S. (*with* Drozhzhinov, Yu. N.; Zav'yalov, B. I.) ★ Tauberian theorems for generalized functions. **89j:46043**
Zav'yalov, B. I. *see* **Vladimirov, V. S.; et al., 89j:46043**

Items with secondary classifications in 46F12

Chaudhary, M. S. *see* **Dange, Snehal, 89a:44008**
Dange, Snehal (*with* Chaudhary, M. S.) Distributional Abelian theorems for the generalized Stieltjes transform. **89a:44008**
Dickson, D. G. Factoring Fourier transforms with zeros in a strip. **89k:30027**
González Rodríguez, José Manuel Existence and uniqueness theorems for systems of partial differential equations with operator S_μ. (Spanish. English summary) **89m:44007**
Kerr, Fiona H. A distributional approach to Namias' fractional Fourier transforms. **89g:42019**
Malgonde, S. P. (*with* Saxena, Rajendra Kumar) Some Abelian theorems for the distributional generalized Meijer-Laplace transformation. **89c:44002**
Méndez Pérez, José Manuel On the Bessel transforms. **89b:44003**
— On the Bessel transformation of arbitrary order. **89k:44009**
Pilipović, Stevan (*with* Stanković, B.) Initial value Abelian theorems for the distributional Stieltjes transform. **89b:44002**
— Tempered ultradistributions. (Italian summary) **89f:46088**
Radzhabov, È. L. A systematization of Zemanian spaces. (Russian. Tajiki summary) **89h:46060**
Saxena, Rajendra Kumar *see* **Malgonde, S. P., 89c:44002**
Stanković, B. S-asymptotic of distributions. **89k:46057**
— *see also* **Pilipović, Stevan, 89b:44002**
Sundaram, Kokila The n-dimensional distributional generalized Laplace transform. **89m:44003**
Tröger, G. An Abelian and Tauberian theorem for the Stieltjes transform of generalized functions. **89a:44011**
Wawak, Ryszard On the value of a distribution at a point. **89m:46078**
Ziemian, Bogdan Taylor formula for distributions. **89h:46065**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Komatsu, Hikosaburo Laplace transforms of hyperfunctions. A new foundation of the Heaviside calculus. **89a:46091**
Matsuzawa, Tadato A calculus approach to hyperfunctions. I. **89b:46059**
Tajima, Shinichi (*with* Tose, Nobuyuki) Microlocal homotopy formula and curvilinear wave expansions of delta-function. **89j:46044**
Tose, Nobuyuki *see* **Tajima, Shinichi, 89j:46044**

Items with secondary classifications in 46F15

Haraux, A. Contrôlabilité exacte d'une membrane rectangulaire au moyen d'une fonctionnelle analytique localisée. (English summary) [Exact controllability of a rectangular membrane by means of a localized analytic functional] **89e:49030**
Ito, Yoshifumi Theory of (vector valued) Fourier hyperfunctions. Their realization as boundary values of (vector valued) slowly increasing holomorphic functions. II. **89a:32005**
Komatsu, Hikosaburo Irregularity of linear differential equations and solutions of Gevrey classes. (Chinese summary) **89h:35002**
de Roever, J. W. Peetre's theorem and generalized functions. **89m:35013**
Ziemian, Bogdan Taylor formula for distributions. **89h:46065**

46F20 Distributions as boundary values of analytic functions [see also 30Exx, 32A40]

Pilipović, Stevan Ultradistributional boundary values for a class of holomorphic functions. **89f:46093**
— Boundary value representation for a class of Beurling ultradistributions. **89i:46049**
Xu, Quan Hua On representations of families of distributions. (Chinese) **89d:46047**

Items with secondary classifications in 46F20

Bui, Huy-Qui Representation theorems and atomic decomposition of Besov spaces. **89b:46044**
Estrada, Ricardo (*with* Kanwal, R. P.) Moment sequences for a certain class of distributions. **89d:30041**
Ivashchuk, V. D. Regularization of an ε-metric. I. (Russian) **89j:81126**
Kanwal, R. P. *see* **Estrada, Ricardo, 89d:30041**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Schmeelk, John Infinite-dimensional parametric distributions. **89a:46092**

Items with secondary classifications in 46F25

Chebotarëv, A. M. Approximately complete sets of the generalized Feynman measure. **89e:35129**
Daletskiĭ, Yu. L. (*with* Pipia, G. M.) Quasidistributions in function spaces connected with evolution differential equations. **89a:46099**
Krée, Paul La théorie des distributions en dimension quelconque et l'intégration stochastique. [The theory of distributions in any dimension, and stochastic integration] **89i:60114**
Meyer, P.-A. Distributions, noyaux, symboles d'après Krée. [Distributions, kernels, symbols, following Krée] **89m:60134**
Pipia, G. M. *see* **Daletskiĭ, Yu. L., 89a:46099**

46F99 None of the above, but in this section

Herbst, Ehrhard Ein Stabilitätsbegriff für Faltungsgleichungen. [A stability concept for convolution equations] **89a:46093**

Items with secondary classifications in 46F99

Barra, Raymond Distributions invariantes. [Invariant distributions] **89b:58019**
Harinck, Pascale Fonctions généralisées sur une algèbre de Lie semi-simple réelle. (English summary) [Invariant generalized functions on a semisimple Lie algebra] **89b:22015**
Joyner, David Summation operators and "explicit formulas". **89a:11120**
Kobayashi, Yuji *see* **Nagamachi, Shigeaki, 89d:58011**
Nagamachi, Shigeaki (*with* Kobayashi, Yuji) Superdistributions. **89d:58011**
Nishiyama, Kyo Virtual characters and constant coefficient invariant eigendistributions on semisimple Lie group. **89b:22025**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 89h:58030**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) The Fourier transform and pseudodifferential operators in superanalysis. **89h:58030**

46Gxx Measures, integration, derivative, holomorphy {For integration on infinite-dimensional spaces, see 28C20; for nonlinear functional analysis, see 58–XX, especially 58Cxx.}

46G05 Derivatives

Bogachëv, V. I. Subspaces of the differentiability of smooth measures on infinite-dimensional spaces. **89e:46046**
Bouchitté, Guy Conjuguée et sous-différentiel d'une fonctionnelle intégrale sur un espace de Sobolev. (English summary) [Conjugate and subdifferential of an integral functional on Sobolev spaces] **89h:46067**
Caraman, Petru Differentiability of quasiconformal mappings in abstract Wiener spaces. **89h:46068a**
— Corrigenda to: "Differentiability of quasiconformal mappings in abstract Wiener spaces" **89h:46068b**
Maslyuchenko, V. K. A property of partial derivatives. (Russian) **89a:46094**
Mirzakhanyan, È. A. Some properties of continuously differentiable mappings of the subset of a Hilbert space. (Russian. Armenian summary) **89f:46094**
— A theorem on the invariance of the domain of a Hilbert space under K_0-diffeomorphisms. (Russian. Armenian summary) **89f:46095**
Mocanu, Gh. Une généralisation du théorème de Marinescu-Vaĭnberg pour les fonctions différentiables Gateaux. [A generalization of the Marinescu-Vaĭnberg theorem for Gateaux-differentiable functions] **89g:46079**
Ng, Kung Fu An inequality implicit function theorem. **89a:46095**
Obata, Nobuaki Analysis of the Lévy Laplacian. **89m:46080**
Rainwater, John Yet more on the differentiability of convex functions. **89m:46081**
Rodríguez Marín, Luis Approximations of differentiable functions in locally convex spaces. **89g:46080**
Ślęzak, Włodzimierz A. À propos de la continuité faible. (Polish summary) [On weak continuity] **89a:46096**

Items with secondary classifications in 46G05

Borwein, J. M. (*with* Fitzpatrick, Simon; Giles, J. R.) The differentiability of real functions on normed linear space using generalized subgradients. **89b:58027**
Castañeda Bravo, Fernando The structure of continuous convergence and its importance in differential calculus in nonnormable spaces. (Spanish. English summary) **89e:58013**
Deville, Robert (*with* Godefroy, G.; Hare, D. E. G.; Zizler, Václav E.) Differentiability of convex functions and the convex point of continuity property in Banach spaces. **89d:46017**
Fitzpatrick, Simon *see* **Borwein, J. M.; et al., 89b:58027**
Fournier, Gilles (*with* Violette, Donald) A fixed point theorem for a class of multivalued continuously differentiable maps. **89f:47084**
Giles, J. R. *see* **Borwein, J. M.; et al., 89b:58027**
Gnatyuk, V. O. (*with* Shchirba, V. S.) Some criteria for the global Lipschitz property of functions. (Russian) **89g:26002**
Godefroy, G. *see* **Deville, Robert; et al., 89d:46017**
Hare, D. E. G. *see* **Deville, Robert; et al., 89d:46017**
Kim, Yong Guk On the radical of a Banach superalgebra and the s-tangent mapping space. (Korean. English summary) (Not in MR)
Neves, Vitor M. C. Infinitesimal calculus in HM spaces. **89i:46079**
Ngô Anh Tú Lokale Darstellungen differenzierbarer Funktionen auf Banachräumen. (English and Russian summaries) [Local representations of differentiable functions on Banach spaces] **89h:58018**
Pallaschke, Diethard (*with* Recht, Peter; Urbański, Ryszard) On extensions of the second-order derivative. (Russian summary) **89m:58020**
Petryshyn, W. V. Fixed point theorems for semidifferentiable k-set-contractions in ordered Banach spaces. **89m:47053**
Przeradzki, B. An inverse function theorem in Fréchet spaces without smoothing operators. **89m:58019**
Recht, Peter *see* **Pallaschke, Diethard; et al., 89m:58020**
Ruess, W. (*with* Stegall, Ch.) Fréchet differentiability of the norm in operator spaces. **89g:47057**
Saito, Kimiaki Itô's formula and Lévy's Laplacian. **89f:60042**

Seppälä, Veikko On nonlinear calculus in normed linear spaces endowed with an additional binary operation. **89g:58019**

Shchirba, V. S. *see* **Gnatyuk, V. O., 89g:26002**

Skrichevskiĭ, V. V. Differentiation of an operator-valued measure in a Banach rigging. **89k:47027**

Stegall, Ch. *see* **Ruess, W., 89g:47057**

Tret′yakov, A. A. The implicit function theorem in degenerate problems. (Russian) **89j:58015**

Urbański, Ryszard *see* **Pallaschke, Diethard; et al., 89m:58020**

Us, G. F. The infinite-dimensional Laplace operator in a space with Gaussian measure. (Russian) **89h:35326**

Violette, Donald *see* **Fournier, Gilles, 89f:47084**

Ward, Doug Convex subcones of the contingent cone in nonsmooth calculus and optimization. **89d:58017**

Zajíček, L. Strict differentiability via differentiability. **89f:58017**

Zizler, Václav E. *see* **Deville, Robert; et al., 89d:46017**

46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Balbás, A. (*with* Jiménez Guerra, Pedro) A Radon-Nikodým theorem for a bilinear integral in locally convex spaces. **89f:46096**

Bator, Elizabeth M. (*with* Lewis, Paul; Race, David) Some connections between Pettis integration and operator theory. **89b:46060**

— A decomposition of bounded scalarly measurable functions taking their ranges in dual Banach spaces. **89i:46050**

Dobrakov, Ivan On integration in Banach spaces. VIII. Polymeasures. **89a:46097**

— On integration in Banach spaces. IX, X. Integration with respect to polymeasures. **89m:46082**

Duchoň, Miloslav Vector measures and nuclearity. (Russian summary) **89j:46045**

Freniche, Francisco J. Some remarks on the average range of a vector measure. **89m:46083**

Giannakoulias, E. M. Absolute continuity and decomposability of vector measures taking values in a locally convex space with basis. **89a:46098**

— Some properties of vector measures taking values in a topological vector space. **89e:46047**

iménez Guerra, Pedro *see* **Balbás, A., 89f:46096**

Lewis, Paul *see* **Bator, Elizabeth M.; et al., 89b:46060**

Masani, P. R. On conditional homomorphisms and seminorms on Banach groups and the unification of operator theory and measure theory. **89j:46046**

Ohba, Sachio Integration with respect to vector measures. (Japanese summary) (Not in MR)

Ohba, Yukio Ranked-vector-space-valued measures. II. (Japanese summary)

Okada, Susumu Integration of conuclear space valued functions. **89h:46069**

Race, David *see* **Bator, Elizabeth M.; et al., 89b:46060**

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kilov, G. P. (*with* Kolesnikov, E. V.; Kusraev, A. G.) On the order-continuous extension of a positive operator. **89m:47033**

mbrosio, Luigi (*with* Buttazzo, Giuseppe) Weak lower semicontinuous envelope of functionals defined on a space of measures. (Italian summary) **89f:49012**

nantharaman, R. (*with* Garg, K. M.) Errata: "Some topological properties of vector measures and their integral maps" [J. Austral. Math. Soc. Ser. A **23** (1977), no. 4, 453–466; MR **58** #6144]. **89f:28022**

akštys, G. (*with* Paulauskas, Vygantas) Convergence of distributions of sums of Banach-space-valued random elements with infinitely divisible laws. II. (Russian. English and Lithuanian summaries) **89a:60009**

albás, A. (*with* Jiménez Guerra, Pedro) Representation of operators by bilinear integrals. **89c:47052**

ardaro, Carlo Convergence, independent of the weight, of sublinear functionals on vector measures, and applications. (Italian. English summary) **89m:49020**

asit, Bolis On a theorem of Gel′fand and a new proof of the Orlicz-Pettis theorem. (Italian summary) **89h:46006**

ator, Elizabeth M. Pettis decomposition for universally scalarly measurable functions. **89m:28016**

elanger, Alain (*with* Dowling, P. N.) Two remarks on absolutely summing operators. **89g:47024**

asco De La Cruz, Oscar Boundary values of vector-valued harmonic functions considered as operators. **89c:46053**

rooks, James K. (*with* Dinculeanu, Nicolae) H^1 and BMO spaces of abstract martingales. **89b:60123**

ttazzo, Giuseppe *see* **Ambrosio, Luigi, 89f:49012**

ambern, Michael (*with* Greim, P.) Spaces of continuous vector functions as duals. **89e:46041**

aselles, V. A short proof of the equivalence of KMP and RNP in Banach lattices and preduals of von Neumann algebras. **89c:46029**

astaing, C. Validité du théorème de Reshetnyak dans les espaces hilbertiens. [Validity of Reshetnyak's theorem in Hilbert spaces] **89m:28017**

ng Hùng Thắng Random operators in Banach spaces. **89d:60004**

elanghe, R. A note on the product of positive operator valued measures. **89g:28014**

nculeanu, Nicolae *see* **Brooks, James K., 89b:60123**

nh Quang Lu'u Summability and amarts of finite order in Fréchet spaces. **89e:47024**

brakov, Ivan On extension of vector polymeasures. **89c:28011**

On integration in Banach spaces. VII. **89f:28023**

wling, P. N. *see* **Belanger, Alain, 89g:47024**

manuele, Giovanni On weak compactness in Banach spaces of *E*-valued measures and *E*-valued Bochner integrable functions, when *E* has an unconditional Schauder decomposition. **89k:46039**

rnández y Fernández-Arroyo, Fidel José A necessary condition for the existence of the product of measures valued in locally convex spaces. (Spanish) **89f:28024**

rcía López, Alfonsa Operators on locally convex spaces of vector-valued continuous functions. **89b:47045**

García Mazarío, Francisco Compactness in locally convex spaces of vector measures. (Spanish. English summary) **89m:46049**

Garg, K. M. *see* **Anantharaman, R., 89f:28022**

González, Gilberto (*with* Panchapagesan, T. V.) Carathéodory extension for measures with values in positive operators. (Spanish) **89m:28018**

Graves, William H. (*with* Ruess, W.) Representing compact sets of compact operators and of compact range vector measures. **89a:46145**

Greim, P. *see* **Cambern, Michael, 89e:46041**

Jefferies, Brian Egorov measurability and generator cores. **89b:47059**

Jiménez Guerra, Pedro *see* **Balbás, A., 89c:47052**

Kadets, V. M. Riemann integral sums and the geometry of a Banach space. (Russian. English summary) **89d:46018**

Khurana, Surjit Singh Extensions of certain compact operators on vector-valued continuous functions. **89d:47063**

Kluvánek, Igor Additive set functions of bounded Φ-variation. **89f:28026**

— Scalar operators and integration. **89j:47023**

Kolesnikov, E. V. *see* **Akilov, G. P.; et al., 89m:47033**

Kusraev, A. G. *see* **Akilov, G. P.; et al., 89m:47033**

Lešnjak, Gorazd Complex convexity and finitely additive vector measures. **89g:46034**

Liu, De Some advances in the investigation of the Radon-Nikodým property. (Chinese. English summary) **89e:46021**

Musiał, Kazimierz Vitali and Lebesgue convergence theorems for Pettis integral in locally convex spaces. **89e:28010**

Nakanishi, Shizu Integration of ranked vector space valued functions. **89g:28016**

Ohba, Sachio Ranked-vector-space valued measures. (Japanese summary) (Not in MR)

Panchapagesan, T. V. *see* **González, Gilberto, 89m:28018**

Papageorgiou, Nikolaos S. Contributions to the theory of set valued functions and set valued measures. **89a:28007**

Paulauskas, Vygantas *see* **Bakštys, G., 89a:60009**

Rodríguez Salazar, Soledad A mean-value theorem for a bilinear integral in locally convex spaces. (Spanish. English summary) **89k:28005**

Rodríguez-Salinas, Baltasar Extremal integral representation. **89c:46013**

Ruess, W. *see* **Graves, William H., 89a:46145**

Saab, Elias On the weak*-Radon Nikodým property. **89f:46040**

Schachermayer, W. The Radon-Nikodým property and the Kreĭn-Milman property are equivalent for strongly regular sets. **89c:46030**

Schmidt, Klaus D. On the modulus of weakly compact operators and strongly additive vector measures. **89e:47056**

Silva, Mauro ★ Tópicos en medidas vectoriales. (Spanish) [Some topics in the theory of vector measures] **89c:28012**

Sun, Yeneng A nonstandard proof of the Riesz representation theorem for weakly compact operators on $C(\Omega)$. **89i:47059**

Trendafilov, N. Uniformly distributed sequences and vector-valued integration. **89h:28017**

Wiid, F. G. J. Weak compactness in spaces of vector valued measures. **89i:46029**

Yannelis, Nicholas C. Fatou's lemma in infinite-dimensional spaces. **89g:28006**

46G12 Measures and integration on abstract linear spaces [see also 28Cxx]

Byczkowski, T. RKHS for Gaussian measures on metric vector spaces. (Russian summary) **89c:46061**

Chang, Kun Soo (*with* Johnson, Gerald W.; Skoug, David) Functions in the Banach algebra $S(\nu)$. **89g:46081**

Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Equivalence of measures that are shifted along the trajectories of a vector field. (Russian) **89f:46097**

— (*with* Pipia, G. M.) Quasidistributions in function spaces connected with evolution differential equations. **89a:46099**

Gorgadze, Z. G. On Bessel potentials in linear spaces. **89h:46070**

Heiliö, Matti Weakly summable measures in Banach spaces. **89e:46048**

Hora, Akihito *see* **Yamasaki, Yasuo, 89b:46061**

Johnson, Gerald W. *see* **Chang, Kun Soo; et al., 89g:46081**

Norin, N. V. The mean value theorem connected with infinite-dimensional thermal potentials. (Russian) **89a:46100**

Okazaki, Yoshiaki (*with* Takahashi, Yasuji) The ergodicity of the convolution $\mu * \nu$ on a vector space. **89a:46101**

— *see also* **Takahashi, Yasuji, 89f:46098**

Pipia, G. M. *see* **Daletskiĭ, Yu. L., 89a:46099**

Skoug, David *see* **Chang, Kun Soo; et al., 89g:46081**

Smoleński, Włodzimierz On the continuity of measurable linear functionals. (Russian summary) **89m:46084**

Sokhadze, G. A. *see* **Daletskiĭ, Yu. L., 89f:46097**

Takahashi, Yasuji (*with* Okazaki, Yoshiaki) Pre-Gaussian cylindrical measures on Banach spaces. **89f:46098**

— *see also* **Okazaki, Yoshiaki, 89a:46101**

Uglanov, A. V. The Newton-Leibniz formula on Banach spaces and the approximation of functions of an infinite-dimensional argument. (Russian) **89m:46085**

Yamasaki, Yasuo (*with* Hora, Akihito) Differentiable shifts for measures on infinite-dimensional spaces. **89b:46061**

Items with secondary classifications in 46G12

Baldi, Paolo Large deviations and stochastic homogenization. **89m:60060**

Bogachëv, V. I. Subspaces of the differentiability of smooth measures on infinite-dimensional spaces. **89e:46046**

— Differentiability of measures in the sense of Skorokhod. **89h:60005**

Chang, Joo Sup Stability theorems for the Feynman integral: the $\mathscr{L}(L_1(\mathbf{R}), C_0(\mathbf{R}))$ theory. **89f:81056**

Chaurasia, A. R. Convergence of measure in separable Banach space. (Hindi. English summary) **89a:28005**

Chu Van Dong Self-decomposable probability measures on locally convex topological vector spaces. **89e:60009**

Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Absolute continuity of smooth measures. **89f:28036**
Elezović, Neven Cylindrical measures on tensor products of Banach spaces and random linear operators. **89a:60015**
Johnson, Gerald W. (*with* Lapidus, Michel L.) Une multiplication non commutative des fonctionnelles de Wiener et le calcul opérationnel de Feynman. (English summary) [A noncommutative multiplication of Wiener functionals and Feynman's operational calculus] **89i:28004**
Kemperman, J. H. B. The median of a finite measure on a Banach space. **89h:46032**
Kluvánek, Igor Integration and the Feynman-Kac formula. **89i:28005**
Komorowski, Ryszard Semistable and self-decomposable measures on separable Banach spaces. **89e:60010**
Kõrezlioğlu, Hayri (*with* Üstünel, Ali Süleyman) An Itô formula for processes with values in an abstract Wiener space. **89i:60113**
Koval'chik, I. M. A nonlinear transformation of Gaussian measures. (Russian) **89f:60043**
Kozak, P. P. Wiener measures in the Λ-product of spaces. (Russian. English summary) **89e:28022**
Kupsch, J. Measures for fermionic integration. **89b:81202**
Lapidus, Michel L. *see* **Johnson, Gerald W., 89i:28004**
Li, Yū Chia Unitary operators on the space of L^2-functions over abstract Wiener spaces. **89h:47045**
Linde, Werner Uniqueness theorems for Gaussian measures in l_q,'$1 \leq q < \infty$. **89a:60017**
Muldowney, P. ★ A general theory of integration in function spaces, including Wiener and Feynman integration. **89i:28006**
Obata, Nobuaki Analysis of the Lévy Laplacian. **89m:46080**
Okada, Toshinao (*with* Okuyama, Akihiro) Note on topologies of linear continuous functionals and real measure functions. **89e:46029**
Okazaki, Yoshiaki (*with* Takahashi, Yasuji) 0-1 laws for kernels of a linear uniform measure. **89a:28010**
— *see also* **Takahashi, Yasuji, 89a:28009**
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Pérez-Abreu, Víctor Decompositions of semimartingales on $\mathscr{S}'$. **89i:60101**
Popov, V. N. ★ Functional integrals and collective excitations. **89e:81002**
Potthoff, J. Littlewood-Paley theory on Gaussian spaces. **89d:60072**
Ryznar, Michał Geometrical properties of Banach spaces and the distribution of the norm for a stable measure. **89k:46027**
Saito, Kimiaki Itô's formula and Lévy's Laplacian. **89f:60042**
Schmeelk, John Infinite-dimensional parametric distributions. **89a:46092**
Smirnov, E. I. A property of countably semiadditive functionals. (Russian) **89f:28030**
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Székely, Gábor J. Haar measure on semigroups. **89a:43002**
Takahashi, Yasuji (*with* Okazaki, Yoshiaki) Uniform measures on linear spaces. **89a:28009**
— *see also* **Okazaki, Yoshiaki, 89a:28010**
Taylor, Thomas J. On the Wiener semigroup and harmonic analysis on the infinite-dimensional torus. **89f:35193**
Tišer, Jaroslav Differentiation theorem for Gaussian measures on Hilbert space. **89m:28023**
Üstünel, Ali Süleyman *see* **Kõrezlioğlu, Hayri, 89i:60113**
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46G15 Lifting theory [see also 28A51]

Items with secondary classifications in 46G15

Grekas, S. On the strong lifting property for products. **89g:28010**
Talagrand, Michel On liftings and the regularization of stochastic processes. **89g:60017**

46G20 Infinite-dimensional holomorphy [see also 32–XX, 58B12, 58C10]

Aron, Richard M. (*with* Globevnik, Josip) Interpolation by analytic functions on c_0. **89j:46047**
— (*with* Gómez Gil, Javier; Llavona, José G.) Homomorphisms between algebras of differentiable functions in infinite dimensions. **89j:46048**
Bjon, Sten (*with* Lindström, Mikael) Algebras of holomorphic functions. **89h:46071**
— Differentiation under the integral sign and holomorphy. **89b:46062**
— (*with* Lindström, Mikael) Characterization of Schwartz spaces by their holomorphic duals. **89f:46099**
Casadio Tarabusi, Enrico Convex maps in L^p spaces. (Italian summary) **89f:46100**
Choi, Yun Sung A generalization of Cartan's uniqueness theorem on locally convex spaces. **89k:46059**
Dineen, S. (*with* Timoney, R. M.) Irreducible domains in Banach spaces. **89a:46102**
— (*with* Klimek, Maciej; Timoney, R. M.) Biholomorphic mappings and Banach function modules. **89j:46049**
García, Domingo Some holomorphic classes of locally convex spaces. (Spanish. English summary) **89k:46060**
— Duality of the space $(H(\Omega, F), \tau_0)$. (Spanish. English summary) **89e:46049**
Globevnik, Josip *see* **Aron, Richard M., 89j:46047**
Gómez Gil, Javier *see* **Aron, Richard M.; et al., 89j:46048**
Hollstein, Ralf Infinite-factorable holomorphic mappings on locally convex spaces. **89f:46101**
Junek, Heinz Holomorphic functions on intermediate spaces. (German and Russian summaries) **89f:46102**
Klimek, Maciej *see* **Dineen, S.; et al., 89j:46049**
Lelong, Pierre Notions capacitaires et fonctions de Green pluricomplexes dans les espaces de Banach. (English summary) [Notions of capacity and pluricomplex Green functions in Banach spaces] **89g:46082**
Lindström, Mikael On compact and bounding holomorphic mappings. **89f:46103**
— *see also* **Bjon, Sten, 89f:46099** *and* **89h:46071**
Llavona, José G. *see* **Aron, Richard M.; et al., 89j:46048**
Lourenço, Mary Lilian Riemann domains over (DFC)-spaces. **89g:46083**
Moraes, Luiza A. Quotients of spaces of holomorphic functions on Banach spaces. **89i:46051**
Ryan, Raymond A. Weakly compact holomorphic mappings on Banach spaces. **89a:46103**
Timoney, R. M. *see* **Dineen, S., 89a:46102** *and* **89j:46049**

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Ansemil, J. M. Locally determining sequences for analytic functions. (Spanish. English summary) **89a:32006**
Arazy, J. An application of infinite-dimensional holomorphy to the geometry of Banach spaces. **89g:46022**
Arias de Reyna Martínez, Juan A real valued homomorphism on algebras of differentiable functions. **89g:46088**
Bingener, Jürgen Splitting theorems for PO-complexes. **89c:32058**
— Analytic moduli spaces as orbit spaces. **89c:32059**
— Local moduli spaces in analytic geometry. **89c:32060**
— Local moduli for strictly pseudoconvex spaces. **89c:32061**
Caraman, Petru Discoidal quasiregular (DQR) functions in l_2^ξ. **89e:30035**
Davie, A. M. (*with* Gamelin, T. W.) A theorem on polynomial-star approximation. **89k:46023**
Gamelin, T. W. *see* **Davie, A. M., 89k:46023**
Geiss, Stefan Ein Faktorisierungssatz für multilineare Funktionale. [A factorization theorem for multilinear functionals] **89b:47067**
Jaramillo, J. A. Bounded real-analytic submanifolds of Banach spaces. **89m:58016**
Lindström, Mikael Schwartz spaces and compact holomorphic mappings. **89d:46004**
— A characterization of Schwartz spaces. **89f:46009**
Nishihara, Masaru On a pseudoconvex domain spread over a complex projective space induced from a complex Banach space with a Schauder basis. **89a:32012**
Pombo, Dinamérico P., Jr. Completion of spaces of homogeneous polynomials. **89f:46141**
Rosinger, Elemér E. ★ Generalized solutions of nonlinear partial differential equations. **89g:35001**
Tonev, T. V. An infinite-dimensional generalization of the Shilov boundary and infinite-dimensional analytic structures in the spectrum of a uniform algebra. **89i:46061**
Włodarczyk, Kazimierz Approximate fixed points of compact holomorphic maps in complex Banach spaces. **89k:47097**

46G99 None of the above, but in this section

Sarantopoulos, I. Polynomials on certain Banach spaces. **89j:46050**
Stegall, Ch. Generalizations of a theorem of Namioka. **89e:46050**
Tomiyama, Jun On the closed derivations on the unit interval. **89d:46048**

Items with secondary classifications in 46G99

Argyros, I. K. An iterative solution of the polynomial equation in Banach space. (Not in MR)
Armstrong, Thomas E. Strong singularity, disjointness, and strong finite additivity of finitely additive measures. **89h:28005**
Asakawa, Hidekazu On the difference of two subdifferential operators. **89m:47059**
Basile, Achille Controls of families of finitely additive functions. **89e:28008**
Blei, Ron C. Multilinear measure theory and the Grothendieck factorization theorem. **89d:28005**
Borwein, J. M. Epi-Lipschitz-like sets in Banach space: theorems and examples. **89b:90225**
Dobrić, V. Analytically normed spaces. **89c:46014**
Filter, Wolfgang (*with* Weber, Karl) Normal measures on Stonian spaces with σ-compact and paracompact support. **89h:28019**
Geiss, Stefan Ein Faktorisierungssatz für multilineare Funktionale. [A factorization theorem for multilinear functionals] **89b:47067**
Gierz, Gerhard Integral representations of linear functionals on function modules. **89f:46052**
Gromov, Mikhael L. (*with* Milman, Vitali D.) Generalization of the spherical isoperimetric inequality to uniformly convex Banach spaces. **89f:46031**
Guo, Da Jun (*with* Sun, Jing Xian; Qi, Gui Jie) Some extensions of the mountain pass lemma. **89e:58024**
Heble, M. P. Approximation of differentiable functions on a Hilbert space. III. **89k:41040**
Jefferies, Brian Semicompact functionals. **89c:46010**
Keller, Hans A. Measures on orthomodular vector space lattices. **89m:28024**
Komiya, Hidetoshi Elementary proof for Sion's minimax theorem. **89f:49017**
Kotelenez, Peter A maximal inequality for stochastic convolution integrals on Hilbert spaces and space-time regularity of linear stochastic partial differential equations. **89h:60087**
Kuczma, Marek On a result of Z. Kominek. (Serbo-Croatian summary) **89d:26012**
Loewen, Philip D. The proximal normal formula in Hilbert space. **89b:49017**
Martellotti, Anna (*with* Salvadori, Anna) A minimax theorem for functions taking values in a Riesz space. **89g:46011**
Milman, Vitali D. *see* **Gromov, Mikhael L., 89f:46031**
Moreau, J.-J. Bounded variation in time. **89k:28004**
Pai, D. V. Abstract minimization problems, restricted centers and fixed points. **89b:90228**
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Rodrigues, B. (*with* Simons, Stephen) Conjugate functions and subdifferentials in nonnormed situations for operators with complete graphs. **89j:90271**
Salvadori, Anna *see* **Martellotti, Anna, 89g:46011**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 89h:58030**
Simons, Stephen *see* **Rodrigues, B., 89j:90271**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) The Fourier transform and pseudodifferential operators in superanalysis. **89h:58030**
Stegall, Ch. Dunford-Pettis sets. **89m:46058**
Sun, Jing Xian *see* **Guo, Da Jun; et al., 89e:58024**
Ward, Doug Isotone tangent cones and nonsmooth optimization. **89d:90206**
Weber, Karl *see* **Filter, Wolfgang, 89h:28019**

Wessel, Alan Some results on Dunford-Pettis operators, strong regularity and the Radon-Nikodým property. **89j:46018**

46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43–XX.}

Shul'man, V. S. *see* **Turovskii, Yu. V., 89e:46051**
Turovskii, Yu. V. (*with* Shul'man, V. S.) Conditions for the massiveness of the range of a derivation of a Banach algebra and of associated differential operators. (Russian) **89e:46051**

46H05 General theory

Chryssakis, Thanassis Numerical range and Gateaux differential in topological algebras. **89c:46062**
Corach, G. (*with* Suárez, Fernando D.) Thin spectra and stable range conditions. **89k:46061**
Dilworth, S. J. (*with* Ransford, T. J.) Spectra in quasi-Banach algebras. **89k:46062**
El-Helaly, Sherif (*with* Husain, Taqdir) Unconditionality of orthogonal bases in B_0-algebras. **89k:46063**
Fernández López, Antonio (*with* García Rus, Eulalia) Banach algebras which are a direct sum of division algebras. **89a:46104**
García Rus, Eulalia *see* **Fernández López, Antonio, 89a:46104**
Godefroy, G. (*with* Iochum, Bruno) Arens-regularity of Banach algebras and the geometry of Banach spaces. **89j:46051**
Groenewald, L. (*with* Raubenheimer, H.) A note on the singular and exponential spectrum in Banach algebras. **89k:46064**
Han, De Guang An elementary property of index functions in Banach algebras. (Chinese. English summary) **89d:46049**
Harte, Robin A note on generalized inverse functions. **89c:46063**
Hennings, M. A. Power-bounded elements and Tauberian theorems in locally convex algebras. **89m:46086**
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Iochum, Bruno *see* **Godefroy, G., 89j:46051**
Johnson, B. E. Approximately multiplicative maps between Banach algebras. **89h:46072**
Kalton, N. J. Sums of idempotents in Banach algebras. **89i:46052**
Karakhanyan, M. I. An asymptotic property of commutators in a Banach algebra. (Russian. Armenian summary) (Not in MR)
Kim, Yong Guk On the radical of a Banach superalgebra and the s-tangent mapping space. (Korean. English summary) (Not in MR)
Levi, Sandro Measurability properties of the spectrum. (Italian. English summary) **89k:46065**
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Rennison, J. F. The quasicentre of a Banach algebra. **89f:46104**
Sołtysiak, Andrzej Approximate point joint spectra and multiplicative functionals. **89a:46106**
Stavrakas, G. A. Lusin sets and generalized spectra of topological algebras. **89d:46050**
Suárez, Fernando D. *see* **Corach, G., 89k:46061**
Tsertos, Yiannis On the circle-exponent function. **89e:46052**
Ülger, A. Arens regularity of the algebra $A\hat{\otimes}B$. **89c:46064**
Żelazko, W. On generalizations of a Shilov theorem. (Italian summary) **89b:46063**

Items with secondary classifications in 46H05

Akkar, Mohamed (*with* El Azhari, M.; Oudadess, M.) Théorèmes de structure sur certaines algèbres de Fréchet. (English summary) [Structure theorems for some Fréchet algebras] **89e:46054**
El Azhari, M. *see* **Akkar, Mohamed; et al., 89e:46054**
El-Helaly, Sherif (*with* Husain, Taqdir) Orthogonal bases are Schauder bases and a characterization of Φ-algebras. **89e:46055**
Feichtinger, Hans G. Banach spaces of distributions defined by decomposition methods. II. **89a:46053**
Huijsmans, C. B. Elements with unit spectrum in a Banach lattice algebra. **89f:46106**
Husain, Taqdir *see* **El-Helaly, Sherif, 89e:46055**
Kokk, A. The decomposability of homomorphisms of topological algebras. (Russian. English summary) **89g:46085**
Magurn, B. A. *see* **Vaserstein, L. N., 89c:16034**
Mallios, Anastasios Continuous vector bundles over topological algebras. II. **89j:46073**
Oudadess, M. *see* **Akkar, Mohamed; et al., 89e:46054**
Pier, Jean-Paul ★ Amenable Banach algebras. **89g:46093**
Porst, Hans-E. On free topological algebras. (French summary) **89e:22004**
Read, C. J. Spectrum reducing extension for one operator on a Banach space. **89j:47006**
Stěrbová, Dina On the radical in Hermitian LMC algebras. (Russian and Czech summaries) **89f:46111**
Tomiyama, Jun On the closed derivations on the unit interval. **89d:46048**
Van Daele, A. K-théorie pour des algèbres de Banach Z_2-graduées. (English summary) [K-theory for Z_2-graded Banach algebras] **89a:46144**
— K-theory for graded Banach algebras. II. **89k:46089**
— K-theory for graded Banach algebras. I. **89g:46113**
Vaserstein, L. N. (*with* Magurn, B. A.) Prestabilization for K_1 of Banach algebras. **89c:16034**

46H10 Ideals and subalgebras

Krupnik, N. Ya. (*with* Markus, M. A.) Inverse-closedness of some Banach subalgebras. (Russian) **89m:46087**
Markus, M. A. *see* **Krupnik, N. Ya., 89m:46087**

Items with secondary classifications in 46H10

Groenewald, L. (*with* Raubenheimer, H.) A note on the singular and exponential spectrum in Banach algebras. **89k:46064**
Raubenheimer, H. *see* **Groenewald, L., 89k:46064**
Żelazko, W. Algebraic generation of $B(X)$ by two subalgebras with square zero. **89h:47063**

46H15 Representations

Items with secondary classifications in 46H15

Guan, Bo Primitive topological algebras and modules. **89g:46084**

46H20 Structure, classification

Cheikh, O. H. (*with* Oudadess, M.) On a commutativity question in Banach algebras. (Arabic summary) **89i:46053**
Oudadess, M. Commutativity of some A-convex algebras. (Arabic summary) **89i:46054**
— *see also* **Cheikh, O. H., 89i:46053**
Tomiuk, B. J. Dual complementors on Banach algebras. **89h:46073**
Yang, Qing De The existence of the socle of a semiradial Banach algebra. (Chinese) **89h:46074**

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Johnson, B. E. Approximately multiplicative maps between Banach algebras. **89h:46072**
Peters, Justin Connections between topological dynamics and operator algebras. **89g:46107**
— The ideal structure of certain nonselfadjoint operator algebras. **89b:47064**

46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)

Guan, Bo Primitive topological algebras and modules. **89g:46084**
Kokk, A. The decomposability of homomorphisms of topological algebras. (Russian. English summary) **89g:46085**

Items with secondary classifications in 46H25

Dineen, S. (*with* Klimek, Maciej; Timoney, R. M.) Biholomorphic mappings and Banach function modules. **89j:46049**
Douglas, Ronald G. On Šilov resolution of Hilbert modules. **89f:47002**
Filippov, O. G. C^*-algebras A over which the Hilbert module $l_2(A)$ is self-dual. (Russian) **89a:46124**
Forrest, Brian Amenability and derivations of the Fourier algebra. **89c:43001**
Gierz, Gerhard Integral representations of linear functionals on function modules. **89f:46052**
Golovin, Yu. O. Homological properties of Hilbert modules over nested operator algebras. (Russian) **89e:46081**
Grønbæk, Niels Amenability of weighted discrete convolution algebras on cancellative semigroups. **89k:43004**
Jarosz, Krzysztof Multipliers in complex Banach spaces and structure of the unit balls. **89j:46017**
Klimek, Maciej *see* **Dineen, S.; et al., 89j:46049**
Papatriantafillou, Maria H. Methods of differentiation in topological A-modules. **89c:46066**
Timoney, R. M. *see* **Dineen, S.; et al., 89j:46049**

46H30 Functional calculus [see also 47A60]

Chen, Gong Ning Some results on Banach algebra-valued holomorphic functions. (Chinese. English summary) **89e:46053**
Hile, G. N. (*with* Pfaffenberger, W. E.) Idempotents in complex Banach algebras. **89a:46107**
Pfaffenberger, W. E. *see* **Hile, G. N., 89a:46107**

Items with secondary classifications in 46H30

Allan, G. R. (*with* O'Farrell, Anthony G.; Ransford, T. J.) A Tauberian theorem arising in operator theory. **89c:47003**
Aupetit, Bernard (*with* Baribeau, Line) Sous-harmonicité de l'angle spectral. (English summary) [Subharmonicity of the spectral angle] **89e:47005**
Baribeau, Line *see* **Aupetit, Bernard, 89e:47005**
Eschmeier, Jörg Analytic spectral mapping theorems for joint spectra. **89b:47026**
O'Farrell, Anthony G. *see* **Allan, G. R.; et al., 89c:47003**
Ransford, T. J. *see* **Allan, G. R.; et al., 89c:47003**
Tarasov, S. K. The joint spectrum of elements of a subalgebra. (Russian) (*see* **89g:00008**)

46H70 Jordan-Banach algebras, Banach-Lie algebras

Barton, Thomas Joseph (*with* Dang, Trien Bang; Horn, Günther) Normal representations of Banach Jordan triple systems. **89c:46065**
Dang, Trien Bang *see* **Barton, Thomas Joseph; et al., 89c:46065**
Horn, Günther *see* **Barton, Thomas Joseph; et al., 89c:46065**

Items with secondary classifications in 46H70

Ayupov, Sh. A. ★ Классификация и представление упорядоченных йордановых алгебр. (Russian) [Classification and representation of ordered Jordan algebras] **89b:46083**
Barton, Thomas Joseph (*with* Friedman, Yaakov) Grothendieck's inequality for JB^*-triples and applications. **89a:46139**
Benslimane, Mohamed (*with* Kaïdi, El Amin Mokhtar) Structure des algèbres de Jordan-Banach non commutatives complexes régulières ou semi-simples à spectre fini. [Structure

of noncommutative complex Jordan-Banach algebras that are regular or semisimple with finite spectrum] **89c:17004**

Dang, Trien Bang (*with* Friedman, Yaakov) Classification of JBW*-triple factors and applications. **89g:46109**

Dineen, S. (*with* Timoney, R. M.) The centroid of a JB^*-triple system. **89j:46067**

Fernández López, Antonio (*with* García Rus, Eulalia) Banach triples with generalized inverses. **89i:46055**

— Noncommutative Jordan Riesz algebras. **89b:17026**

Friedman, Yaakov *see* **Barton, Thomas Joseph, 89a:46139** *and* **Dang, Trien Bang, 89g:46109**

García Rus, Eulalia *see* **Fernández López, Antonio, 89i:46055**

Horn, Günther Characterization of the predual and ideal structure of a JBW*-triple. **89a:46140**

— (*with* Neher, Erhard) Classification of continuous JBW^*-triples. **89c:46090**

Kaïdi, El Amin Mokhtar *see* **Benslimane, Mohamed, 89c:17004**

Li, Jian Wei Characterizations of finite dimensionality for Banach-Jordan algebras. (Chinese. English summary) **89i:46063**

Neher, Erhard ★ Jordan triple systems by the grid approach. **89b:17024**

— *see also* **Horn, Günther, 89c:46090**

Pestov, V. G. Fermeture non standard des groupes et algèbres de Lie banachiques. (English summary) [Nonstandard hulls of Banach-Lie groups and algebras] **89g:22028**

Rodríguez-Palacios, Á. Jordan axioms for C^*-algebras. **89j:46058**

Timoney, R. M. *see* **Dineen, S., 89j:46067**

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46Jxx Commutative Banach algebras and commutative topological algebras

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46J05 General theory

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Cheikh, O. H. (*with* Oudadess, M.) On a commutativity question in Banach algebras. (Arabic summary) **89i:46053**

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46J10 Banach algebras of continuous functions, function algebras

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— *see also* **Srinivasan, N., 89k:46067**

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Kaneko, Hiroshi[2] (*with* Taniguchi, Setsuo) A stochastic approach to the Šilov boundary. **89a:32015**

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Kolaski, Clinton J. Surjective isometries of weighted Bergman spaces. **89m:46042**

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Lee, Sangbae (*with* Kim, Yong Chan) Multipliers of G^p and Bloch functions. **89c:30090**

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Lypchuk, Tanya A. (*with* Smith, Malcolm C.; Tannenbaum, Allen) Weighted sensitivity minimization: general plants in H^∞ and rational weights. **89i:93039**

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Miyahara, Yasushi On local deformations of a Banach space of analytic functions on a Riemann surface. **89i:30053**

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Müller, Paul F. X. A local version of a result of Gamlen and Gaudet. **89m:46016**

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Nordgren, E. A. (*with* Rosenthal, Peter M.; Wintrobe, F. S.) Invertible composition operators on H^p. **89c:47044**

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Richter, Stefan (*with* Shields, Allen) Bounded analytic functions in the Dirichlet space. **89c:46039**

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Strouse, Elizabeth Closed ideals in convolution algebras and the Laplace transform. **89m:46091**

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Zhang, Jin Hao Cohomology vanishing theorem and finitely generated ideals in certain function algebras. **89j:32025**

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46J20 Ideals, maximal ideals, boundaries

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— New relations between Sibony-Basener boundaries. **89i:46062**

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Gorkin, Pamela (*with* Hedenmalm, Håkan; Mortini, Raymond) A Beurling-Rudin theorem for H^∞. **89a:46114**
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6L70 Jordan algebras, Lie algebras [see also 46H70]

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ang, Trien Bang (*with* Friedman, Yaakov) Classification of JBW*-triple factors and applications. **89g:46109**
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- (*with* Neher, Erhard) Classification of continuous JBW^*-triples. **89c:46090**
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enslimane, Mohamed (*with* Kaïdi, El Amin Mokhtar) Structure des algèbres de Jordan-Banach non commutatives complexes régulières ou semi-simples à spectre fini. [Structure of noncommutative complex Jordan-Banach algebras that are regular or semisimple with finite spectrum] **89c:17004**
ho, Sung Je (*with* Kim, Sang Og; Lee, Sa Ge) On linear maps preserving projections. **89j:46062**
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6L80 K-theory and operator algebras [see also 18Fxx, 19Kxx, 46M20, 55Rxx]

usqué, Claudi K-theoretic triviality for Rickart C^*-algebras and $\aleph_0$-continuous regular rings. **89a:46141**
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onnes, Alain (*with* Cuntz, J.) Quasi homomorphismes, cohomologie cyclique et positivité. (English summary) [Quasihomomorphisms, cyclic homology and positivity] **89h:46098**
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— Cyclic cohomology and noncommutative differential geometry. **89i:58138**
Douglas, Ronald G. (*with* Hurder, Steven; Kaminker, Jerome) Toeplitz operators and the eta invariant: the case of S^1. **89j:58132**
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46Mxx Categorical methods [see also 18–XX]

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46M05 Tensor products

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Hofmann, Gerald ★ Topologies on tensor products. **89j:46070**
Jarchow, Hans (*with* John, Kamil) On the equality of injective and projective tensor products. **89j:46071**
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Köthe, Gottfried Duality of tensor products of converge[nce]-free spaces. **89c:46094**
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Blei, Ron C. Multilinear measure theory and the Grothendieck factorization theorem. **89d:28005**
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Buntinas, Martin Products of sequence spaces. **89f:46017**
Canela, Miguel A. Some results in representable Banach spaces. **89g:46027**
Cho, Sung Je (*with* Kye, Seung-Hyeok; Lee, Sa Ge) Intersection properties for the tensor products of C^*-algebras. **89a:46121**
Dădărlat, Marius On homomorphisms of matrix algebras of continuous functions. **89c:46091**
Effros, Edward G. (*with* Kishimoto, Akitaka) Module maps and Hochschild-Johnson cohomology. **89b:46068**
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Eschmeier, Jörg Analytic index formulas for tensor product systems. **89f:47020**
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Fdez. Castillo, Jesús M. Sums and products of Hilbert spaces. **89f:46002**
Geiss, Stefan Ein Faktorisierungssatz für multilineare Funktionale. [A factorization theorem for multilinear functionals] **89b:47067**
Graham, Colin C. (*with* Schreiber, Bertram M.) Projections in spaces of bimeasures. **89b:43004**
Grobler, J. J. (*with* Labuschagne, C. C. A.) The tensor product of Archimedean ordered vector spaces. **89f:46014**
Haagerup, Uffe A new upper bound for the complex Grothendieck constant. **89f:47029**
Hadwin, Donald W. Strongly quasidiagonal C^*-algebras. **89d:46060**
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Jameson, G. J. O. ★ Summing and nuclear norms in Banach space theory. **89c:46020**
John, Kamil Operators whose tensor powers are ε-π-continuous. **89m:47015**
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Paulsen, V. I. (*with* Smith, R. R.) Multilinear maps and tensor norms on operator systems. **89m:46099**
Rodriguez-Piazza, Luis Analyticité des algèbres de restriction et solution du problème de la dichotomie dans le cadre des algèbres tensorielles (d'après J. Bourgain). [Analyticity of restriction algebras and solution of the dichotomy problem for tensor algebras (after J. Bourgain)] **89e:46027**
(Rosenberg, Jonathan) *see* **Hadwin, Donald W., 89d:46060**
Ruess, W. (*with* Werner, Dirk) Structural properties of operator spaces. **89d:47097**
Ruston, Anthony F. ★ Fredholm theory in Banach spaces. **89a:47018**
Ryan, Raymond A. The Dunford-Pettis property and projective tensor products. (Russian summary) **89k:46019**
Rynne, B. P. Tensor products and Taylor's joint spectrum in Banach spaces. **89j:47003**
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Wrobel, Volker Tensor products of linear operators in Banach spaces and Taylor's joint spectrum. II. **89g:47006**
Xiao, Yue Long (*with* Zhou, Ai Hui) On the $\bigotimes$-product of Orlicz spaces. (Chinese. English summary) **89a:46072**
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46M10 Projective and injective objects

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46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20.}

Berger, S. M. On deductive varieties of locally convex spaces. **89k:46088**
Pashenkov, V. V. Homogeneous and inhomogeneous dualities. (Russian) **89m:46113**
Vogt, D. On the functors $\mathrm{Ext}^1(E,F)$ for Fréchet spaces. **89a:46146**

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Day, B. J. Onto Gel′fand transformations. (French summary) **89e:18015**
Kneis, Gert Completion functors for categories of convergence spaces. II. Embedding of separated acceptable spaces into their completion. **89g:54007**
Min, Kyung Chan A duality theorem for fuzzy limit algebras. **89g:54017**
Porst, Hans-E. On free topological algebras. (French summary) **89e:22004**
Rowe, K. A. Nuclearity. **89e:18017**

6M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19–XX, 46L80, 55Rxx]

olovin, Yu. O. Homological properties of Hilbert modules over nested operator algebras. (Russian) **89e:46081**
allios, Anastasios Continuous vector bundles over topological algebras. II. **89j:46073**
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— (*with* Milman, Mario) Interpolation of tent spaces and applications. **89i:46025**
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— (*with* Fernandez, Dicesar Lass) Hardy-Sobolev spaces and Besov spaces with a function parameter. **89g:46063**
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— (*with* Popov, Vasil Atanasov) Interpolation of Besov spaces. **89h:46044**
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— Sur les normes normales au sens de Bénilan, Crandall et Pazy. (English summary) [On normal norms in the sense of Bénilan, Crandall and Pazy] **89e:46031**
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— (*with* Persson, Lars-Erik) Real interpolation between weighted L^p and Lorentz spaces. (Russian summary) **89m:46055**

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Persson, Lars-Erik Real interpolation between some operator ideals. **89f:47069**

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— (*with* Xu, Quan Hua) The strong p-variation of martingales and orthogonal series. **89d:60086**

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Wallstén, Robert Remarks on interpolation of subspaces. **89h:46042**

Xu, Quan Hua Espaces d'interpolation réels entre les espaces V_p: propriétés géométriques et applications probabilistes. [Real interpolation spaces between the spaces V_p: geometric properties and probabilistic applications] **89m:46059**

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— Local moduli spaces in analytic geometry. **89c:32060**

— Local moduli for strictly pseudoconvex spaces. **89c:32061**

Dayal, Saheb (*with* Jain, Sushma) Pseudonorm topology on the space of continuous multilinear operators on linear topological spaces. **89d:46006**

Facenda Aguirre, José Antonio Stability of locally convex spaces under ultraproducts. (Spanish. English summary) **89f:46001**

Gierz, Gerhard Integral representations of linear functionals on function modules. **89f:46052**

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Kocatepe, Mefharet An isomorphism theorem for Dragilev spaces. **89f:46018**

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Pełczyński, A. (*with* Tomczak-Jaegermann, Nicole) On the length of faithful nuclear representations of finite rank operators. **89i:47037**

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Milman, Vitali D. Diameter of a minimal invariant subset of equivariant Lipschitz actions on compact subsets of $\mathbf{R}^k$. **89a:46148**

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Albeverio, S. (*with* Høegh-Krohn, R.; Holden, Helge) Stochastic multiplicative measures, generalized Markov semigroups, and group-valued stochastic processes and fields. **89k:60055**

Ali, S. Twareque Functional analytic methods in stochastic quantum mechanics. **89i:81029**

Aliprantis, C. D. (*with* Brown, Donald J.; Burkinshaw, O.) Edgeworth equilibria. **89c:90025**

— (*with* Brown, Donald J.; Burkinshaw, O.) Edgeworth equilibria in production economies. **89i:90016**

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van den Ban, Erik P. Asymptotic behaviour of matrix coefficients related to reductive symmetric spaces. **89c:22025**

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Coifman, Ronald R. (*with* Murray, Margaret A. M.) Uniform analyticity of orthogonal projections. **89j:42001**

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Ďol′nikov, V. L. A remark on the separability of sets by a hyperplane. (Russian) **89a:52008**

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Hess, Christian Théorème de la convergence dominée pour l'intégrale et l'espérance conditionnelle des ensembles aléatoires non bornés et des intégrandes. (English summary) [The dominated convergence theorem for the integral and the conditional expectation of unbounded random sets and of integrands] **89a:60032**

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Precupanu, Anca-Maria (*with* Precupanu, Teodor) A characterization of antiproximinal sets. **89d:90237**

Precupanu, Teodor *see* **Precupanu, Anca-Maria, 89d:90237**

Przeworska-Rolewicz, Danuta ★ Algebraic analysis. **89m:00005**

Pták, Pavel An observation on observables. (Russian and Czech summaries) **89d:81012**

Pustyl'nikov, L. D. A ground state in a model of Frenkel' and Kontorova. **89i:82097**

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— Global theories of the linearizing projection with applications. **89m:90051**

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Stulpe, Werner Conditional expectations, conditional distributions, and a posteriori ensembles in generalized probability theory. **89f:81024**

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Summers, Stephen J. From algebras of local observables to quantum fields: generalized H-bounds. **89h:81093**

Tikhomirov, V. M. Convex analysis. (Russian) (*see* **89f:41001**)

Todorov, T. D. Application of nonstandard Hilbert space to quantum mechanics. **89b:81045**

Truffert, Annick Applications des méthodes de représentation intégrale et d'approximations inf-convolutives à l'épi convergence. [Applications of the methods of integral representation and inf-convolutive approximation to epiconvergence] **89j:49005**

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Zhang, Cong Jun On a necessary and sufficient condition for basic spaces. (Chinese) **89b:46043**

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Application of methods of functional analysis in problems of mathematical physics

★ Применение методов функционального анализа в задачах математической физики. (Russian) [Application of methods of functional analysis in problems of mathematical physics] **89b:00007**
CBMS Regional Conference Series in Mathematics *see* **Helton, J. William; et al., 89f:47001**

46P05 Functional analysis over fields other than R or C; non-Archimedean functional analysis [see also 12J25, 32E27]

Balbi, Marilene Teixeira Topological vector spaces over topological division rings: barrelled, bornological and quasibarrelled spaces. **89i:46078**
Beckenstein, Edward (*with* Narici, Lawrence) Automatic continuity of certain linear isomorphisms. **89k:46091**
Caenepeel, S. (*with* Schikhof, W. H.) Two elementary proofs of Katsaras' theorem on p-adic compactoids. **89a:46149**
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Helbig, Siegfried On Carathéodory's and Kreĭn-Milman's theorems in fully ordered groups. **89g:46118**
Martínez-Maurica, J. (*with* Pellón, Teresa) Non-Archimedean Tauberian operators. **89a:46150**
— (*with* Pellón, Teresa) Tauberian operators between non-Archimedean normed spaces. (Spanish. English summary) **89j:46074**
— (*with* Pérez-García, Cristina) The three-space problem for a class of normed spaces. **89a:46151**
— (*with* Pellón, Teresa) Non-Archimedean Chebyshev centers. **89c:46098**
Narici, Lawrence *see* **Beckenstein, Edward, 89k:46091**
Natarajan, P. N. Characterization of regular and Schur matrices over non-Archimedean fields. **89b:46088**
Pellón, Teresa *see* **Martínez-Maurica, J., 89a:46150; 89c:46098** *and* **89j:46074**
Pérez-García, Cristina The basis problem in A-normed spaces. (Spanish. English summary) **89j:46075**
— The Kreĭn-Milman theorem in non-Archimedean analysis. **89m:46115**
— On compactoidity in non-Archimedean locally convex spaces with a Schauder basis. **89c:46099**
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Pombo, Dinamérico P., Jr. Completion of spaces of homogeneous polynomials. **89f:46141**
de Queiroz, Maria Lúcia B. Mixed vector space topologies. **89c:46100**
Schikhof, W. H. Compact-like sets in non-Archimedean functional analysis. **89a:46152**
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Borm, G. F. p-adic Fourier transforms. **89f:42023**
Escassut, Alain *see* **Sarmant-Durix, Marie Claude, 89k:30049**
Evans, Steven N. Continuity properties of Gaussian stochastic processes indexed by a local field. **89e:60084**
Lowen, Robert (*with* Srivastava, Arun Kumar^2; Wuyts, P.) Non-Archimedean metric induced fuzzy uniform spaces. **89k:54015**
Sarmant-Durix, Marie Claude (*with* Escassut, Alain) Prolongement analytique à travers un T-filtre. [Analytic continuation through a T-filter] **89k:30049**
Shen, You Feng Characterizations of $H^p(K^n)$ space. (Chinese summary) **89m:46077**
Srivastava, Arun Kumar^2 *see* **Lowen, Robert; et al., 89k:54015**
Vladimirov, V. S. (*with* Volovich, I. V.) p-adic quantum mechanics. **89m:81068**
Volovich, I. V. *see* **Vladimirov, V. S., 89m:81068**
Wuyts, P. *see* **Lowen, Robert; et al., 89k:54015**
Zheng, Wei Xing Further on a class of approximation identity operators over local fields. **89e:43016**

46Q05 Nonstandard functional analysis [see also 03Hxx]

Henson, C. Ward Infinitesimals in functional analysis. (*see* **89m:03060**)
Neves, Vitor M. C. Infinitesimal calculus in HM spaces. **89i:46079**

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Impens, C. Local microcontinuity of nonstandard polynomials. **89a:03125**
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Todorov, T. D. Application of nonstandard Hilbert space to quantum mechanics. **89b:81045**

47–XX Operator theory

47–01 Elementary exposition; textbooks

Ékbĕrov, M. S. ★ Khĕtti fĕzalar vĕ khĕtti operatorlar. (Azerbaijani) [Linear spaces and linear operators] (Not in MR)

Items with secondary classifications in 47–01

(Artola, Michel) *see* **Dautray, Robert, 89m:00002** *and* **89m:00003a**
(Authier, Marc) *see* **Dautray, Robert, 89m:00002**
Brown, W. C. ★ A second course in linear algebra. **89f:15001**
Buldyrev, V. S. (*with* Pavlov, B. S.) ★ Линейная алгебра и функции многих переменных. (Russian) [Linear algebra and functions of several variables] **89f:00001**
(Cessenat, Michel) *see* **Dautray, Robert, 89m:00002** *and* **89m:00003a**
(Combes, J. M.) *see* **Dautray, Robert, 89m:00002** *and* **89m:00003a**
Dautray, Robert (*with* Lions, J.-L.) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 4. (French) [Mathematical analysis and computing for science and technology. Vol. 4] **89m:00002**
— (*with* Lions, J.-L.) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 5. (French) [Mathematical analysis and computing for science and technology. Vol. 5] **89m:00003a**
Gvishiani, A. D. *see* **Kirillov, A. A., 89j:46001**
Harte, Robin ★ Invertibility and singularity for bounded linear operators. **89d:47001**
(Keldysh, M. V.) *see* **Markus, A. S., 89h:47023**
Kirillov, A. A. (*with* Gvishiani, A. D.) ★ Теоремы и задачи функционального анализа. (Russian) [Theorems and problems of functional analysis] **89j:46001**
Lions, J.-L. *see* **Dautray, Robert, 89m:00002** *and* **89m:00003a**
Markus, A. S. ★ Introduction to the spectral theory of polynomial operator pencils. **89h:47023**
(McFaden, H. H.) *see* **Markus, A. S., 89h:47023**
(Mercier, Bertrand) *see* **Dautray, Robert, 89m:00002**
Pavlov, B. S. *see* **Buldyrev, V. S., 89f:00001**
(Scheurer, Bruno) *see* **Dautray, Robert, 89m:00003a**
Shikin, E. V. ★ Линейные пространства и отображения. (Russian) [Linear spaces and mappings] **89j:15002**
Shu, Wu Chang *see* **Xia, Dao Xing; et al., 89m:46001**
(Silver, Ben) *see* **Markus, A. S., 89h:47023**
Tong, Yu Sun *see* **Xia, Dao Xing; et al., 89m:46001**
(Wild, Claude) *see* **Dautray, Robert, 89m:00002**
Xia, Dao Xing (*with* Shu, Wu Chang; Yan, Shao Zong; Tong, Yu Sun) ★ Fanhan fenxi di e jiaocheng. (Chinese) [A second course in functional analysis] **89m:46001**
Yan, Shao Zong *see* **Xia, Dao Xing; et al., 89m:46001**

47–02 Advanced exposition (research surveys, monographs, etc.)

Ball, Joseph A. *see* **Helton, J. William; et al., 89f:47001**
Edmunds, D. E. (*with* Evans, W. D.) ★ Spectral theory and differential operators. **89b:47001**
Evans, W. D. *see* **Edmunds, D. E., 89b:47001**
Fage, M. K. (*with* Nagnibida, N. I.) ★ Проблема эквивалентности обыкновенных линейных дифференциальных операторов. (Russian) [The problem of equivalence of ordinary linear differential operators] **89c:47001**
Fiałkow, Lawrence A. Closures of similarity orbits of Hilbert space operators. **89j:47001**
Helton, J. William (*with* Ball, Joseph A.; Johnson, Charles Royal; Palmer, John N.) ★ Operator theory, analytic functions, matrices, and electrical engineering. **89f:47001**
Johnson, Charles Royal *see* **Helton, J. William; et al., 89f:47001**
Jørgensen, Palle E. T. ★ Operators and representation theory. **89e:47001**
Nagnibida, N. I. *see* **Fage, M. K., 89c:47001**
Palmer, John N. *see* **Helton, J. William; et al., 89f:47001**

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CBMS Regional Conference Series in Mathematics *see* **Helton, J. William; et al., 89f:47001**

Items with secondary classifications in 47–02

Baumeister, Johann ★ Stable solution of inverse problems. **89a:65004**
(Conway, John B.) *see* **Surveys of some recent results in operator theory, 89g:47002**
Fučik, Svatopluk *see* **Kufner, A., 89k:35003**
Guo, Da Jun (*with* Lakshmikantham, V.) ★ Nonlinear problems in abstract cones. **89k:47084**
Harte, Robin ★ Invertibility and singularity for bounded linear operators. **89d:47001**
Istrăţescu, Vasile Ion ★ Inner product structures. **89c:46001**
(Keldysh, M. V.) *see* **Markus, A. S., 89h:47023**
Kufner, A. (*with* Fučik, Svatopluk) ★ Нелинейные дифференциальные уравнения. (Russian) [Nonlinear differential equations] **89k:35003**
Lakshmikantham, V. *see* **Guo, Da Jun, 89k:47084**
Markus, A. S. ★ Introduction to the spectral theory of polynomial operator pencils. **89h:47023**
(McFaden, H. H.) *see* **Markus, A. S., 89h:47023**
Morozov, V. A. ★ Методы регуляризации неустойчивых задач. (Russian) [Methods for th regularization of unstable problems] **89m:65056**
(Morrel, Bernard B.) *see* **Surveys of some recent results in operator theory, 89g:47002**
Mynbaev, K. T. (*with* Otelbaev, M. O.) ★ Весовые функциональные пространства и спект дифференциальных операторов. (Russian) [Weighted function spaces and the spectrum of differential operators] **89h:46036**
Otelbaev, M. O. *see* **Mynbaev, K. T., 89h:46036**
(Pokhozhaev, S. I.) *see* **Kufner, A., 89k:35003**
Przeworska-Rolewicz, Danuta ★ Algebraic analysis. **89m:00005**
(Silver, Ben) *see* **Markus, A. S., 89h:47023**
(Zhukov, A. F.) *see* **Kufner, A., 89k:35003**

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47–03 Historical (must also be assigned at least one classification number from Section 01)

Pietsch, Albrecht Jenaer Beiträge zur Theorie der Operatorenideale. (English and Russian summaries) [Contributions from Jena on the theory of operator ideals] **89a:47001**

47–06 Proceedings, conferences, etc.

(Apostol, Constantin) *see* **Topics in operator theory, 89b:47005**
(Arsene, Gr.) *see* **Special classes of linear operators and other topics, 89b:47003**
(Conway, John B.) *see* **Surveys of some recent results in operator theory, 89b:47004** *and* **89g:47002**
(Davies, E. B.) *see* **Semigroups and differential operators,** (Not in MR)
(Gamkrelidze, R. V.) *see* **Mathematical analysis, 89e:47002**
(Gohberg, I.) *see* **Topics in operator theory and interpolation, 89a:47002** *and* **Topics in operator theory, 89b:47005**
(Goldstein, Jercme A.) *see* **Semigroups and differential operators,** (Not in MR)
(Helson, Henry) *see* **Special classes of linear operators and other topics, 89b:47003**
(Livšic, M. S.) *see* **Topics in operator theory and interpolation, 89a:47002**
(Morrel, Bernard B.) *see* **Surveys of some recent results in operator theory, 89b:47004** *and* **89g:47002**
(Nagel, Rainer) *see* **Semigroups and differential operators,** (Not in MR)
(Pearcy, C.) *see* **Special classes of linear operators and other topics, 89b:47003**
(Prössdorf, S.) *see* **Seminar: Analysis, 89b:47002**
(Silbermann, Bernd) *see* **Seminar: Analysis, 89b:47002**
(Vasilescu, Florian-Horia) *see* **Special classes of linear operators and other topics, 89b:47003**
(Voiculescu, Dan) *see* **Special classes of linear operators and other topics, 89b:47003**

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Berlin ★ Seminar analysis. **89b:47002**
Bucharest ★ Special classes of linear operators and other topics. **89b:47003**
Conference:
  Operator Theory ★ Special classes of linear operators and other topics. **89b:47003**
  Semigroups and Differential Operators ★ Semigroups and differential operators. (Not in MR)
Itogi Nauki i Tekhniki ★ Математический анализ. Том 26. (Russian) [Mathematical analysis. Vol. 26] **89e:47002**
Mathematical analysis ★ Математический анализ. Том 26. (Russian) [Mathematical analysis. Vol. 26] **89e:47002**
Oberwolfach ★ Semigroups and differential operators. (Not in MR)
Operator theory and related topics ★ Sayosoron to sono shuhen. (Japanese) [Operator theory and related topics] **89g:47001**
Semigroups and differential operators ★ Semigroups and differential operators. (Not in MR)
Seminar:
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Special classes of linear operators and other topics ★ Special classes of linear operators and other topics. **89b:47003**
Special issue:
  Semigroups and differential operators ★ Semigroups and differential operators. (Not in MR)
Surveys of some recent results in operator theory ★ Surveys of some recent results in operator theory. Vol. I. **89b:47004**
— ★ Surveys of some recent results in operator theory. Vol. II. **89g:47002**
Symposium:
  Operator Theory and Related Topics ★ Sayosoron to sono shuhen. (Japanese) [Operator theory and related topics] **89g:47001**
Topics in operator theory ★ Topics in operator theory. **89b:47005**
Topics in operator theory and interpolation ★ Topics in operator theory and interpolation. **89a:47002**

Items with secondary classifications in 47–06

(Hogbe-Nlend, H.) *see* **Functional analysis and its applications, 89g:46002**
(Menikhes, L. D.) *see* **All-Union School: Theory of Operators in Function Spaces, 89f:00020a; 89f:00020b** *and* **89f:00020c**
(Rus, Ioan A.) *see* **Seminar: Fixed Point Theory, 89g:54111**

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All-Union School:
  Theory of Operators in Function Spaces ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть I. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part I] **89f:00020a**
  — ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть II. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part II] **89f:00020b**
  — ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть III. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part III] **89f:00020c**
Chelyabinsk ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть I. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part I] **89f:00020a**
— ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть II. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part II] **89f:00020b**
— ★ XI Всесоюзная Школа по Теории Операторов в Функциональных Пространствах. Часть III. (Russian) [XI All-Union School on the Theory of Operators in Function Spaces. Part III] **89f:00020c**
Functional analysis and its applications ★ Functional analysis and its applications. **89g:46002**
Nice ★ Functional analysis and its applications. **89g:46002**
Nonlinear evolutionary equations and partial differential equations ★ Hisenkei hatten noteishiki to henbibun hoteishiki. (Japanese) [Nonlinear evolutionary equations and partial differential equations] **89c:35004**
School:
  Functional Analysis and its Applications ★ Functional analysis and its applications. **89g:46002**
Seminar:
  Fixed point theory ★ Seminar on fixed point theory. **89g:54111**
Symposium:
  Nonlinear Evolutionary Equations and Partial Differential Equations ★ Hisenkei hatten noteishiki to henbibun hoteishiki. (Japanese) [Nonlinear evolutionary equations and partial differential equations] **89c:35004**

47Axx Single linear operators: general theory

Harte, Robin ★ Invertibility and singularity for bounded linear operators. **89d:47001**

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Edmunds, D. E. (*with* Evans, W. D.) ★ Spectral theory and differential operators. **89b:47001**
Evans, W. D. *see* **Edmunds, D. E., 89b:47001**
Henson, C. Ward Infinitesimals in functional analysis. (*see* **89m:03060**)

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

Abian, A. (*with* Kemp, Paula A.) An everywhere defined unbounded invertible linear operator in a Hilbert space. **89i:47001**
Álvarez, Teresa State diagram for operators with null space or conull space in an ideal of Banach spaces. **89f:47019**
Aupetit, Bernard An improvement of Kaplansky's lemma on locally algebraic operators. **89d:47002**
Beauzamy, Bernard Orbites tendant vers l'infini. (English summary) [Orbits tending to infinity] **89e:47003**
Bouldin, Richard Approximation by operators with fixed nullity. **89g:47003**
Coulhon, Thierry Suites d'opérateurs à puissances bornées dans les espaces ayant la propriété de Dunford-Pettis. [Sequences of operators with bounded powers in spaces having the Dunford-Pettis property] **89i:47002**
Cross, R. W. Some continuity properties of linear transformations in normed spaces. **89i:47003**
— Unbounded strictly singular operators. **89i:47004**
Curto, Raul E. (*with* Fialkow, Lawrence A.) Similarity, quasisimilarity, and operator factorizations. **89k:47001**
Domanskiĭ, E. N. (*with* Kadets, V. M.) On the basis regularizability of inverse operators. **89k:47002**
Douglas, Ronald G. On Šilov resolution of Hilbert modules. **89f:47002**
van Dulst, D. On a question of R. G. Douglas. (Chinese. English summary) **89k:47003**
Fialkow, Lawrence A. *see* **Curto, Raul E., 89k:47001**
González, Manuel Null spaces and ranges of polynomials of operators. **89k:47004**
Heatherly, Henry A characterization of infinite dimension for vector spaces. **89k:47005**
Ikramov, Kh. D. Singular numbers and the polar decomposition of an operator in a bilinear metric space. **89h:47001**
Kadets, V. M. *see* **Domanskiĭ, E. N., 89k:47002**
Kemp, Paula A. *see* **Abian, A., 89i:47001**
Liu, Chang Kai (*with* Yao, Peng Fei; Zhu, Guang Tian) Perturbation of rank one for a class of linear operators. (Chinese. English summary) **89d:47003**
Lu, Shi Jie An application of pseudo-inverses—the analytic characteristic of T-regular points for closed operators. **89g:47004**
Ôta, S. On a singular part of an unbounded operator. (German and Russian summaries) **89j:47002a**
— Erratum: "On a singular part of an unbounded operator". **89j:47002b**
Rynne, B. P. Tensor products and Taylor's joint spectrum in Banach spaces. **89j:47003**
Shevchik, V. V. Action of an operator with nonclosed range on orthogonal bases in a Hilbert space. (Russian. English and Georgian summaries) **89f:47003**
Sova, Miroslav Interchangeability of unbounded operators: special criteria of transmutativity. (Russian and Czech summaries) **89h:47002**
Sun, Chuan Kun The pseudo-condition number and minimum modulus of linear operators on Banach spaces. (Chinese) **89c:47002**
Wang, Guo Rong^{1} Approximation methods for the W-weighted Drazin inverses of linear operators in Banach spaces. (Chinese. English summary) **89i:47005**
Yao, Peng Fei *see* **Liu, Chang Kai; et al., 89d:47003**
Zhu, Guang Tian *see* **Liu, Chang Kai; et al., 89d:47003**

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Bhatia, Rajendra (*with* Sinha, K. B.) A unitary analogue of Kato's theorem on variation of discrete spectra. **89h:47017**
Bühler, Wolfgang J. Two proofs of the Kantorovich inequality and some generalizations. **89k:15027**
Daneš, Josef The Hilbert projective metric and an equation in a C^*-algebra. **89a:46122**
Furuta, Takayuki Two mixed Hadamard type generalizations of Heinz inequality. **89e:47009**
González, Manuel (*with* Onieva, Victor M.) On functions of relatively regular and normally solvable operators. **89j:47010**
Harte, Robin A note on generalized inverse functions. **89c:46063**
Hsiao, Shêng Yen Asymptotic behavior of pseudoresolvents on some Grothendieck spaces. **89g:47054**
Hu, Shu An On Hermitian operator in tensor product space. **89a:15026**
Janas, Jan Remarks on similarity and quasisimilarity of operators. **89h:47019**

Janz, Raimund Holomorphic families of subspaces of a Banach space. **89h:46102**
Kérchy, László On the multiplicity of the commutant of operators. **89f:47005**
Kramar, Edvard On orthogonality and on adjoint operator in H-locally convex spaces. **89m:46005**
Kurepa, Svetozar Quadratic and sesquilinear forms. Contributions to characterizations of inner product spaces. **89a:46048**
Lu, Shi Jie The structure of semi-Fredholm domains for closed operators. (Chinese. English summary) **89h:47004**
Malozemov, L. A. Eigenvalues of a perturbed almost periodic operator that are embedded into a continuous spectrum. **89i:47084**
Martínez-Maurica, J. (*with* Pellón, Teresa) Non-Archimedean Tauberian operators. **89a:46150**
— (*with* Pellón, Teresa) Tauberian operators between non-Archimedean normed spaces. (Spanish. English summary) **89j:46074**
de las Obras-L. y Nasarre, Ma. Carmen Conservation of convergences in $G(H)$ for a linear operator. (Spanish. English summary) **89d:46025**
Onieva, Victor M. *see* **González, Manuel, 89j:47010**
Pellón, Teresa *see* **Martínez-Maurica, J., 89a:46150** *and* **89j:46074**
Sharma, C. S. Complex structure on a real Hilbert space and symplectic structure on a complex Hilbert space. **89d:46026**
— (*with* Almeida, D. F.) Semilinear operators. **89k:47099**
Sinha, K. B. *see* **Bhatia, Rajendra, 89h:47017**
Sunder, V. S. N subspaces. **89i:46023**
Tanahashi, Kôtarô Spectral manifolds of bounded S-decomposable operators. **89g:47042**
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47A10 Spectrum, resolvent

Aksoy, Asuman Güven The radius of the essential spectrum. **89e:47004**
Allan, G. R. (*with* O'Farrell, Anthony G.; Ransford, T. J.) A Tauberian theorem arising in operator theory. **89c:47003**
Aupetit, Bernard (*with* Baribeau, Line) Sous-harmonicité de l'angle spectral. (English summary) [Subharmonicity of the spectral angle] **89e:47005**
Baribeau, Line *see* **Aupetit, Bernard, 89e:47005**
Burlando, Laura Two sets of continuity points of the spectrum and spectral radius functions in an algebra of operators. (Italian summary) **89d:47004**
Chai, Jun (*with* Huang, Dan Run) On the Riesz-Schauder theory for systems of compact operators. (Chinese. English summary) **89k:47006**
Chō, Muneo Joint spectra of commuting normal operators on Banach spaces. **89i:47006**
Curto, Raul E. (*with* Dash, A. T.) Browder spectral systems. **89f:47004**
Dash, A. T. *see* **Curto, Raul E., 89f:47004**
Erovenko, V. A. On the essential spectrum of functions of linear operators in a Banach space. (Russian) **89a:47003**
Godich, N. T. *see* **Godich, V. I., 89b:47006**
Godich, V. I. (*with* Godich, N. T.) Point spectrum of additive continuous operators. (Russian) **89b:47006**
Gu, Cai Xing Spectra of tensor products and elementary operators. (Chinese) **89a:47004**
— *see also* **Li, Shao Kuan, 89h:47003**
Guo, Duo Zuo Necessary and sufficient conditions for spectral equality of quasisimilar operators. (Chinese. English summary) **89a:47005**
Huang, Dan Run Some applications of Taylor's joint spectrum to operator equations. (Chinese. English summary) **89d:47005**
— *see also* **Chai, Jun, 89k:47006**
Janas, Jan Inductive limit of operators and its applications. **89m:47001**
Kalitvin, A. S. The multispectrum of linear operators. (Russian) (*see* **89f:00013**)
Kérchy, László On the multiplicity of the commutant of operators. **89f:47005**
Kittaneh, Fuad Linear operators for which $\|T\| = \|\mathrm{Re}\, T\|$. **89m:47002**
Li, Shao Kuan (*with* Gu, Cai Xing) On the spectral representation of the elementary operator and spectral mapping theorems. **89h:47003**
Lipin, A. V. Multiplicity of the spectrum of operators that are roots of polynomial equations. **89c:47004**
Liu, Gui Zhong *see* **You, Zhao Yong, 89c:47006**
Lu, Shi Jie The structure of semi-Fredholm domains for closed operators. (Chinese. English summary) **89h:47004**
Mbekhta, Mostafa Sur la théorie spectral généralisée. (English summary) [On generalized spectral theory] **89f:47006**
McIntosh, Alan G. R. (*with* Pryde, Alan; Ricker, Werner) Comparison of joint spectra for certain classes of commuting operators. **89e:47006**
Müller, Vladimír Local spectral radius formula for operators in Banach spaces. **89g:47005**
Nordgren, E. A. (*with* Radjavi, H.; Rosenthal, Peter M.) Weak resolvents of linear operators. **89a:47006**
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Park, Young Sik *see* **Yang, Young Oh, 89g:47007**
Pryde, Alan *see* **McIntosh, Alan G. R.; et al., 89e:47006**
Pták, Vlastimil (*with* Vrbová, Pavla) Algebraic spectral subspaces. **89h:47005**
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Ransford, T. J. *see* **Allan, G. R.; et al., 89c:47003**
Ricker, Werner "Spectral subsets" of $\mathbf{R}^m$ associated with commuting families of linear operators. **89e:47007**
— *see also* **McIntosh, Alan G. R.; et al., 89e:47006**
Rosenthal, Peter M. *see* **Nordgren, E. A.; et al., 89a:47006**
Vrbová, Pavla *see* **Pták, Vlastimil, 89h:47005**
Wrobel, Volker Spektraltheorie verwandter Operationen. (English summary) [Spectral theory of related operations] **89c:47005**
— Joint spectra and joint numerical ranges for pairwise commuting operators in Banach spaces. **89d:47006**
— Tensor products of linear operators in Banach spaces and Taylor's joint spectrum. II. **89g:47006**
Yang, Young Oh (*with* Park, Young Sik) On spectra and numerical ranges. **89g:47007**
You, Zhao Yong (*with* Liu, Gui Zhong) Finite systems of linear operators whose norms m be used to approximate their spectral radii simultaneously. (Chinese. English summary) **89c:47006**
Zarouf, F. Spectre de l'extension d'une contraction de classe C_1. et complètement non unitaire (CNU). [Spectrum of the extension of a completely nonunitary contraction of class C_1.] **89f:47007**

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Allakhverdiev, B. P. *see* **Maksudov, F. G., 89f:47023**
Aramaki, Junichi On an extension of the Ikehara Tauberian theorem. **89h:47026**
Baĭramogly, M. The regularized trace of a differential operator of order $2n$ with an unbounded operator coefficient. (Russian) **89h:47067**
Barnes, Bruce A. The spectral and Fredholm theory of extensions of bounded linear operators. **89i:47008**
Bulgakov, A. Ya. (*with* Godunov, S. K.) Circular dichotomy of a matrix spectrum. **89m:15005**
Caselles, V. On band irreducible operators on Banach lattices. **89f:47054**
Cha, Hyung Koo On the essential spectrum of an irreducible hyponormal operator. **89h:47035**
Chen, Xiao Man (*with* Huang, Chao Cheng) On the representation of the joint spectrum f a commuting n-tuple of nonnormal operators. **89e:47030**
Chevreau, B. *see* **Albrecht, E., 89b:47007**
Curto, Raul E. (*with* Fialkow, Lawrence A.) Similarity, quasisimilarity, and operator factorizations. **89k:47001**
Dijksma, Aalt (*with* de Snoo, Henk) Symmetric and selfadjoint relations in Kreĭn spaces. II. **89h:47052**
Dolgiĭ, Yu. F. Spectral properties of the operator of inner superposition. **89m:47023**
Du, Hong Ke Some remarks on dominant operators. (Chinese. English summary) **89b:47054**
Erovenko, V. A. The essential spectrum of Cesàro operators. (Russian. English summary) **89a:47043**
Eschmeier, Jörg ★ Analytische Dualität und Tensorprodukte in der mehrdimensionalen Spektraltheorie. (German) [Analytic duality and tensor products in multidimensional spectral theory] **89h:47047**
— Analytic spectral mapping theorems for joint spectra. **89b:47026**
— Tensor products and elementary operators. **89h:47048**
Fal′kovich, I. M. The spectrum of strongly converging operators. (Russian) **89j:47009**
Fan, Michael Ko Hui (*with* Fu, Jyun-Horng) On block limiting norm and structured singular value. **89m:93019**
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Förster, K.-H. (*with* Nagy, Béla) On the local spectral theory of positive operators. **89g:47049**
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Găvruţa, P. Spectral properties of a weighted mean operator. (Romanian summary) **89d:47061**
Godunov, S. K. *see* **Bulgakov, A. Ya., 89m:15005**
González, Manuel Null spaces and ranges of polynomials of operators. **89k:47004**
Herrero, Domingo A. The Fredholm structure of an n-multicyclic operator. **89a:47020**
— Spectral pictures of operators in the Cowen-Douglas class $\mathscr{B}_n(\Omega)$ and its closure. **89b:47032**
— (*with* Taylor, Thomas J.; Wang, Zong Y.) Variation of the point spectrum under compac perturbations. **89h:47018**
— Economical compact perturbations. II. Filling in the holes. **89i:47021**
Huang, Chao Cheng *see* **Chen, Xiao Man, 89e:47030**
Intissar, Abdelkader Étude spectrale d'une famille d'opérateurs non-symétriques intervenant dans la théorie des champs de reggeons. (English summary) [Study of the spectru of a family of nonsymmetric operators arising in reggeon field theory] **89k:81032**
Ismailov, Z. I. Extensions, without a spectrum, of the minimal operator generated by a first order operator-differential expression. (Russian) **89g:47060**
Janas, Jan Remarks on similarity and quasisimilarity of operators. **89h:47019**
Kalitvin, A. S. The spectrum of some classes of operators with partial integrals. (Russian) (*see* **89f:00013**)
Lapteva, N. A. Mapping of spectra in the construction of matrix functions of positive operators. (Russian) (*see* **89g:00008**)
Lee, Je-Yoon *see* **Park, Young Sik, 89k:47009**
Levi, Sandro Measurability properties of the spectrum. (Italian. English summary) **89k:46065**
Lu, Shi Jie An application of pseudo-inverses—the analytic characteristic of T-regular points for closed operators. **89g:47004**
Lyubishkin, V. A. (*with* Tsopanov, I. D.) New trace formulas for operators with a discrete spectrum. (Russian) **89c:47026**
Maksudov, F. G. (*with* Allakhverdiev, B. P.) Spectral analysis of polynomial operator pencils with a continuous-point spectrum. (Russian. English and Azerbaijani summaries) **89f:47023**
Marco Montoro, Luis *see* **Martínez Carracedo, Celso; et al., 89c:47021**
Martínez Carracedo, Celso (*with* Sanz Alix, Miguel A.; Marco Montoro, Luis) Fractional powers of operators. **89c:47021**
McIntosh, Alan G. R. (*with* Pryde, Alan; Ricker, Werner) Estimates for solutions of the operator equation $\sum_{j=1}^{m} A_j Q B_j = U$. **89k:47024**
Melikhov, S. N. Matrix representation of some classes of continuous linear operators. (Russian) **89m:47022**
Meshkov, V. Z. The spectral radius of a convolution operator with discrete measure. (Russian) **89c:47042**
Mitter, S. K. *see* **Zames, G., 89c:47039**
Naboko, S. N. Uniqueness theorems for operator-valued functions with positive imaginary part, and the singular spectrum in the selfadjoint Friedrichs model. **89e:47028**
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Nair, M. Thamban On spectral variation under relatively bounded perturbation. **89h:4702**

Okada, Susumu Spectra of scalar-type spectral operators and Schauder decompositions. **89m:47028**
Okutoyi, J. (*with* Thorpe, B.) The spectrum of the Cesàro operator on $c_0(c_0)$. **89i:47051**
Omladič, M. A note on the SVEP. (Slovenian summary) **89g:47041**
Park, Young Sik (*with* Lee, Je-Yoon) On the numerical range for linear operators in Hilbert space. (Korean summary) **89k:47009**
Pastur, L. A. Spectral theory of random selfadjoint operators. (Russian) **89f:60071**
Pourahmadi, Mohsen Remarks on extreme eigenvalues of Toeplitz matrices. **89a:47037**
Prado, Humberto Spectral properties for operators in a Lie algebra. **89k:22012**
Pryde, Alan *see* **McIntosh, Alan G. R.; et al., 89k:47024**
Radzievskiĭ, G. V. Asymptotics of the singular values and eigenvalues of weakly perturbed operators. **89j:47013**
Read, C. J. The invariant subspace problem: a description with further applications of a combinatorial proof. **89a:47009**
— Spectrum reducing extension for one operator on a Banach space. **89j:47006**
Ricker, Werner *see* **McIntosh, Alan G. R.; et al., 89k:47024**
Rudol, K. The spectrum of orthogonal sums of subnormal pairs. **89d:47039**
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Song, Guo Zhu The spectrum of θ-class operators and the range of the derivations that such operators induce. (Chinese) **89c:47050**
Tarasov, S. K. The joint spectrum of elements of a subalgebra. (Russian) (*see* **89g:00008**)
Taylor, Thomas J. *see* **Herrero, Domingo A.; et al., 89h:47018**
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Tsopanov, I. D. *see* **Lyubishkin, V. A., 89c:47026**
Vagarshakyan, A. A. On the singular spectrum of a perturbed multiplication operator. (Russian. Armenian summary) **89m:47044**
Vasilescu, Florian-Horia Spectral capacities in quotient Fréchet spaces. **89h:47049**
Wang, Zong Y. *see* **Herrero, Domingo A.; et al., 89h:47018**
Zames, G. (*with* Mitter, S. K.) A note on essential spectra and norms of mixed Hankel-Toeplitz operators. **89c:47039**

47A12 Numerical range

Acosta, Maria D. (*with* Payá-Albert, Rafael) Denseness of operators whose second adjoints attain their numerical radii. **89f:47008**
Davidson, Kenneth R. (*with* Holbrook, John A. R.) Numerical radii of zero-one matrices. **89k:47007**
Fan, Ming On joint numerical ranges of nonnormal operators. (Chinese) **89m:47003**
Gowda, Huche *see* **Puttamadaiah, C., 89c:47007**
Holbrook, John A. R. *see* **Davidson, Kenneth R., 89k:47007**
Je, Hai Gon (*with* Yang, Young Oh) On the spatial numerical ranges and Hermitian operators. (Korean summary) **89a:47007**
Lee, Je-Yoon *see* **Park, Young Sik, 89k:47009**
Müller, Vladimír The numerical radius of a commuting product. **89k:47008**
Park, Young Sik (*with* Lee, Je-Yoon) On the numerical range for linear operators in Hilbert space. (Korean summary) **89k:47009**
Payá-Albert, Rafael *see* **Acosta, Maria D., 89f:47008**
Puttamadaiah, C. (*with* Gowda, Huche) On spatial numerical ranges of operators on Banach spaces. **89c:47007**
Yang, Young Oh *see* **Je, Hai Gon, 89a:47007**

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Bayasgalan, Ts. The numerical domain of linear operators in spaces with an indefinite metric. (Russian) **89m:47030**
Chō, Muneo Joint spectra of commuting normal operators on Banach spaces. **89i:47006**
Fan, Michael Ko Hui (*with* Tits, André L.) On the generalized numerical range. **89b:16031**
Kuliev, T. Yu. Numerical range of a weighted shift operator with periodic coefficients in the space l^p. (Russian) **89h:47040**
Kutkut, Mahmoud M. Weak closure of the unitary orbits of operators having a convex spectral set. **89b:47011**
Li, Chi-Kwong The C-convex matrices. **89b:15038**
Marcus, Marvin (*with* Sandy, Markus) Vertex points in the numerical range of a derivation. **89b:15012**
— (*with* Sandy, Markus) Symmetry properties of higher numerical ranges. **89f:15021**
Park, Young Sik *see* **Yang, Young Oh, 89g:47007**
Sandy, Markus *see* **Marcus, Marvin, 89b:15012** *and* **89f:15021**
Tits, André L. *see* **Fan, Michael Ko Hui, 89b:16031**
Wrobel, Volker Joint spectra and joint numerical ranges for pairwise commuting operators in Banach spaces. **89d:47006**
Yang, Young Oh (*with* Park, Young Sik) On spectra and numerical ranges. **89g:47007**

47A15 Invariant subspaces

Albrecht, E. (*with* Chevreau, B.) Invariant subspaces for l^p-operators having Bishop's property (β) on a large part of their spectrum. **89b:47007**
Beauzamy, Bernard An operator on a separable Hilbert space with many hypercyclic vectors. **89j:47004**
Bercovici, Hari (*with* Foiaş, Ciprian; Pearcy, C.) Two Banach space methods and dual operator algebras. **89m:47004**
— A question on invariant subspaces of Bergman spaces. **89h:47006**
Brown, Scott W. (*with* Chevreau, B.) Toute contraction à calcul fonctionnel isométrique est réflexive. (English summary) [Every contraction with isometric functional calculus is reflexive] **89i:47007**
Chevreau, B. (*with* Pearcy, C.) Membership in $A_{\aleph_0}$ and invariant subspaces. **89a:47008**
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Foiaş, Ciprian *see* **Bercovici, Hari; et al., 89m:47004**
Fong, C. K. (*with* Herrero, Domingo A.; Rodman, Leiba) Invariant subspace lattices that complement every subspace. **89d:47007**
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Hou, Jin Chuan Some new unicellular operators and attainable totally ordered lattices. (Chinese) **89e:47008**
Máté, László On the continuity of causal operators. **89d:47008**
Nordgren, E. A. (*with* Radjabalipour, M.; Radjavi, H.; Rosenthal, Peter M.) Quadratic operators and invariant subspaces. **89d:47009**
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Read, C. J. The invariant subspace problem: a description with further applications of a combinatorial proof. **89a:47009**
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Zajac, Michal Hyperinvariant subspaces of weak contractions. II. **89f:47009**

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Bercovici, Hari Factorization theorems and the structure of operators on Hilbert space. **89i:47032**
— A contribution to the structure theory of operators in the class A. **89e:47019**
Brown, Scott W. Full analytic subspaces for contractions with rich spectrum. **89j:47012**
Chevreau, B. (*with* Pearcy, C.) On Sheung's theorem in the theory of dual operator algebras. **89f:47025**
— (*with* Exner, G.; Pearcy, C.) Structure theory and reflexivity of contraction operators. **89j:47011**
(Choi, Man Duen) *see* **Pop, Florin, 89m:47040**
(Davidson, Kenneth R.) *see* **Pop, Florin, 89m:47040**
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(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89h:43001**
Gheondea, Aurelian On invariant maximal nonnegative subspaces of certain operators acting in a Kreĭn space. **89m:47031**
Godunov, S. K. Sous-espaces invariants des opérateurs linéaires. Point de vue et méthodes numériques nouveaux. (English summary) [Invariant subspaces of linear operators. A new approach with new numerical methods] (*see* **89c:00031**)
Gohberg, I. (*with* Koltracht, I.) Efficient algorithm for Toeplitz plus Hankel matrices. **89k:65029**
Gustafson, William H. *see* **Habibi, Javad Faghih, 89d:16028**
Habibi, Javad Faghih (*with* Gustafson, William H.) Reflexive serial algebras. **89d:16028**
Helton, J. William (*with* Ball, Joseph A.; Johnson, Charles Royal; Palmer, John N.) ★ Operator theory, analytic functions, matrices, and electrical engineering. **89f:47001**
Horák, Karel (*with* Müller, Vladimír; Vrbová, Pavla) A remark concerning uniqueness of the Wold decomposition of finite-dimensional stationary processes. (Russian and Czech summaries) **89c:60054**
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Pop, Florin A remark on a question of M. D. Choi and K. R. Davidson: "Perturbations of matrix algebras" [Michigan Math. J. 33 (1986), no. 2, 273–287; MR 87i:47058]. **89m:47040**
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Durszt, E. On defect functions of contractions. **89g:47014**
Exner, G. (*with* Sullivan, Patrick) Normal operators and the classes A_n. **89h:47011**
Filimonov, A. P. (*with* Tsekanovskiĭ, È. R.) Automorphic-invariant operator colligations and the factorization of their characteristic operator functions. (Russian) **89h:47012**
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Cui, Ming Gen (*with* Deng, Zhong Xing) Formal solutions of ill-posed operator equations of the first kind. (Chinese) **89j:47008**
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— (*with* Terreni, Brunello) Sommes d'opérateurs de type elliptique et parabolique. II. Applications. (Italian summary) [Sums of operators of elliptic and parabolic type. II. Applications] **89g:47017**
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Ruston, Anthony F. ★ Fredholm theory in Banach spaces. **89a:47018**
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Shivakumar, P. N. (*with* Williams, J. J.; Rudraiah, N.) Eigenvalues for infinite matrices. **89a:47019**
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Baumeister, Johann ★ Stable solution of inverse problems. **89a:65004**
Benabdallakh, M. (*with* Rutkas, A. G.; Solov′ev, A. A.) Stability of degenerate difference systems in Banach spaces. (Russian) **89f:39002**
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Drakhlin, M. E. A linear functional equation. (Russian) **89g:47033**

Engl, Heinz W. (*with* Neubauer, Andreas) A parameter choice strategy for (iterated) Tikhonov regularization of ill-posed problems leading to superconvergence with optimal rates. **89b:65135**

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Karlovich, Yu. I. (*with* Mardiev, R.) The one-sided invertibility of functional operators and the $n(d)$-normality of singular integral operators with shift in Hölder spaces. **89j:47022**

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Shelepov, V. Yu. The Noethericity of integral equations of the plane theory of elasticity in the spaces L_p, $p > 1$. (Russian. English summary) **89k:45006**

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Bloom, Steven (*with* Tabacco Vignati, Anita; Vignati, Marco) Interpolation and factorization of operators. **89d:46073**

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Dobrovol′skiĭ, V. V. Construction of asymptotic expansions of distributions of additive functionals of Markov processes by methods of the theory of singularly perturbed semigroups. (Russian) **89i:60152**

Eremin, M. S. Transformation operators on the [real] axis of solutions of Sturm-Liouville equations with an arbitrarily increasing potential. (Russian) **89i:34021**

Exel, Ruy (*with* Loring, Terry) Almost commuting unitary matrices. **89m:15003**

Fialkow, Lawrence A. Closures of similarity orbits of Hilbert space operators. **89j:47001**

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— (*with* Greenberg, William; van der Mee, C. V. M.) Perturbation analysis of analytic bisemigroups and applications to linear transport theory. **89d:47089**

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— On a class of selfadjoint operators in Kreĭn space and their compact perturbations. **89f:47052**

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Schwarzmeier, J. L. (*with* Lewis, H. Ralph) Variational nature of dispersion equations revisited. **89g:76048**

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Soldatov, A. P. A normality condition for general nonlocal problems. (Russian) (*see* **89j:00030**)

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West, T. T. A Riesz-Schauder theorem for semi-Fredholm operators. **89i:47020**

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Yan, Jia An A perturbation theorem for semigroups of linear operators. **89i:47081**

47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)

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Maksudov, F. G. (*with* Allakhverdiev, B. P.) Spectral analysis of polynomial operator pencils with a continuous-point spectrum. (Russian. English and Azerbaijani summaries) **89f:47023**

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Mennicken, Reinhard (*with* Möller, Manfred) Equivalence of boundary eigenvalue operator functions and their characteristic matrix functions. **89e:47016**

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Pisier, Gilles Factorisation de fonctions analytiques à valeurs opérateurs. (English summary) [Factorization of operator-valued analytic functions] **89m:47009**

Prather, Carl L. (*with* Ran, A. C. M.) Factorization of a class of meromorphic matrix valued functions. **89b:47025**

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Tao, Zhi Guang Julia's lemma for analytic operator functions. **89m:47010**

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Yakubov, S. Ya. Multiple completeness of the root vectors of a system of operator pencils and of boundary value problems with a parameter. (Russian. English and Azerbaijani summaries) **89f:47024**

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Deciu, Elena Adjoint operator nodes, controllability and observability on complex Hilbert spaces. (Romanian summary) **89f:47026**

Dijksma, Aalt (*with* Langer, Heinz; de Snoo, Henk) Representations of holomorphic operator functions by means of resolvents of unitary or selfadjoint operators in Kreĭn spaces. **89a:47054**

Dym, Harry A maximum entropy principle for contractive interpolants. **89c:47036**

Filimonov, A. P. (*with* Tsekanovskiĭ, È. R.) Automorphic-invariant operator colligations and the factorization of their characteristic operator functions. (Russian) **89h:47012**

Geiss, Stefan Ein Faktorisierungssatz für multilineare Funktionale. [A factorization theorem for multilinear functionals] **89b:47067**

Girko, V. L. Limiting normalized spectral functions of a pencil of selfadjoint random matrices. **89g:15027**

Gohberg, I. (*with* Kaashoek, M. A.; Lerer, L.) Nodes and realization of rational matrix functions: minimality theory and applications. **89e:93045**

Ivanchenko, T. S. (*with* Sakhnovich, L. A.) An operator approach to V. P. Potapov's scheme for the investigation of interpolation problems. (Russian) **89d:47085**

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Livšic, M. S. Commuting nonselfadjoint operators and collective motions of systems. **89a:47014**

Moss, William F. (*with* Smith, Philip W.; Ward, Joseph D.) Nonlinear eigenvalue approximation. **89g:65076**

Naboko, S. N. Uniqueness theorems for operator-valued functions with positive imaginary part, and the singular spectrum in the selfadjoint Friedrichs model. **89e:47028**

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47A60 Functional calculus

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Aramaki, Junichi On an extension of the Ikehara Tauberian theorem. **89h:47026**

Bach, Edward (*with* Furuta, Takayuki) Order preserving operator inequalities. **89i:47025**

Berkson, Earl A Fourier analysis theory of abstract spectral decompositions. **89i:47026**

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Eschmeier, Jörg Analytic spectral mapping theorems for joint spectra. **89b:47026**

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— (*with* Kubo, Fumio; Kubo, Kyoko) A parametrization between operator means. **89i:47027**

Furuta, Takayuki $A \geq B \geq 0$ assures $(B^r A^p B^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p+2r$. **89b:47028**

— $A \geq B \geq 0$ iff $(B^r A^p B^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p+2r$. **89b:47027**

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deLaubenfels, Ralph A holomorphic functional calculus for unbounded operators. **89c:47020**

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Martínez Carracedo, Celso (*with* Sanz Alix, Miguel A.; Marco Montoro, Luis) Fractional powers of operators. **89c:47021**

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Yastrebo, B. S. (*with* Cherkasov, I. D.; Emel′yanov, V. F.) Series of operators and modeling of random variables. (Russian) (*see* **89j:00036**)

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Campbell, James (*with* Petersen, Karl) The spectral measure and Hilbert transform of a measure-preserving transformation. **89i:28008**

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Fujii, Junichi (*with* Fujii, Masatoshi) On operator inequalities due to Ando-Kittaneh-Kosaki. **89g:47011**

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Furuta, Takayuki The operator equation $T(H^{1/n}T)^n = K$. **89i:47028**

Gomilko, A. M. On domains of definition of fractional powers of accretive operators. **89g:47043**

González, Manuel Null spaces and ranges of polynomials of operators. **89k:47004**

Hannabuss, K. C. Selfadjoint operators in indefinite inner product spaces. **89i:47063**

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Jonas, Peter On a class of selfadjoint operators in Kreĭn space and their compact perturbations. **89f:47052**

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deLaubenfels, Ralph Functional calculus for generators of uniformly bounded holomorphic semigroups. **89i:47074**

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Maslov, V. P. (*with* Nazaikinskii, V. E.) ★ Asymptotics of operator and pseudo-differential equations. **89i:58141**

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Rădulescu, Florin (*with* Vasilescu, Florian-Horia) Matrix operators and hyperinvariant subspaces. **89a:47051**

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47A62 Equations involving linear operators, with operator unknowns

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Jódar, Lucas An algorithm for solving generalized algebraic Lyapunov equations in Hilbert space, applications to boundary value problems. **89c:47022**

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— Explicit solutions of two-point boundary value operator problems. **89m:34082**

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Kumari, K. (*with* Singh, Harshinder; Vasudeva, H. L.) On the operator functional equation $S(t+s) + S(t-s) = 2S(t)[I - 2S^2(s/2)]$. (Serbo-Croatian summary) **89k:39019**

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— (*with* Exner, G.; Pearcy, C.) Structure theory and reflexivity of contraction operators. **89j:47011**

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Chevreau, B. (*with* Pearcy, C.) Membership in $A_{\aleph_0}$ and invariant subspaces. **89a:47008**

— *see also* **Brown, Scott W., 89i:47007**

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47A66 (Non)quasitriangular, (non)quasidiagonal operators

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— Approximating the linear quadratic optimal control law for hereditary systems with delays in the control. **89d:34126**
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47A70 Eigenfunction expansions, rigged Hilbert spaces; eigenvalue problems in general [see also 49Gxx]

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— (*with* Browne, Patrick J.) Two parameter eigenvalue problems for matrices. **89m:47012**
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— (*with* Isaev, Hamlet) Symmetric multiparameter problems and deficiency index theory. **89m:47014**
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John, Kamil Operators whose tensor powers are ε-π-continuous. **89m:47015**
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Almamedov, M. S. (*with* Aslanov, A. A.; Isaev, G. A.) Tensor determinants that are connected with multiparameter spectral problems. (Russian) **89d:47081**
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47A99 None of the above, but in this section

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Anderson, James Milne (*with* Clunie, J. G.; Rosenblum, M.; Rovnyak, J.) Some problems of best approximation with constraints. **89j:41038**

Bassotti Rizza, Lucilla An extension of the theory of linear operators invariant with respect to a congruence group. (Italian. English summary) **89h:47041**

Beauzamy, Bernard An operator on a separable Hilbert space with many hypercyclic vectors. **89j:47004**

Bouldin, Richard Best approximation of a normal operator in the trace norm. **89g:47025**

— Approximation by operators with fixed nullity. **89g:47003**

Bourgain, J. (*with* Tzafriri, L.) Invertibility of "large" submatrices with applications to the geometry of Banach spaces and harmonic analysis. **89a:46035**

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Christensen, Erik (*with* Sinclair, Allan) Representations of completely bounded multilinear operators. **89f:46113**

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Glover, Keith (*with* Jonckheere, Edmond) A comparison of two Hankel-norm methods for approximating spectra. **89c:93031**

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Gu, Cai Xing Spectra of tensor products and elementary operators. (Chinese) **89a:47004**

Huang, Sen Zhong Constructing operators which cannot be isometrically approximated. **89f:47056**

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Kaganova, E. M. The Lyapunov exponent of the product of random operators. **89j:60085**

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Larson, David R. Reflexivity, algebraic reflexivity and linear interpolation. **89d:47096**

Magaril-Il′yaev, G. G. (*with* Chan Tkhi Le) On the problem of the optimal recovery of functionals. (Russian) **89a:41046**

Masani, P. R. On conditional homomorphisms and seminorms on Banach groups and the unification of operator theory and measure theory. **89j:46046**

van Mill, Jan An infinite-dimensional pre-Hilbert space all bounded linear operators of which are simple. **89b:46030**

Paulsen, V. I. (*with* Smith, R. R.) Multilinear maps and tensor norms on operator systems. **89m:46099**

Perline, Ronald K. Time-band limiting matrices and Lamé's equation. **89h:34027**

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Schütt, C. (*with* König, Hermann; Gordon, Yehoram) Dualité des nombres d'entropie. [Duality of entropy numbers] **89h:47033**

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47Bxx Single linear operators: special classes of operators

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Henson, C. Ward Infinitesimals in functional analysis. (*see* **89m:03060**)

Lahti, Pekka J. Uncertainty, complementarity, and commutativity. (*see* **89h:81008**)

47B05 Compact operators, Riesz operators

Aiena, Pietro An internal characterization of inessential operators. **89e:47023**

Jódar, Lucas Decomposition of operators with countable spectrum. **89d:47034**

Li, Jian Kui A note on finite rank operators. (Chinese) **89a:47031**

Zhukova, O. I. Complete continuity and strict singularity of linear operators in l^p-sums of Banach spaces. (Russian) **89h:47030**

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Aiena, Pietro Riesz multipliers on $L_1(G)$. **89f:43005**

Álvarez, Josefina (*with* Durán, R.) L^p continuity of pseudo-differential operators with discontinuous symbol. **89i:42026**

Álvarez, Teresa Factoring Rosenthal operators. **89g:47021**

Arendt, Wolfgang (*with* Schwarz, Hans-Ulrich) Ideale regulärer Operatoren und Kompaktheit positiver Operatoren zwischen Banachverbänden. [Ideals of regular operators and compactness of positive operators between Banach lattices] **89g:47048**

Chai, Jun (*with* Huang, Dan Run) On the Riesz-Schauder theory for systems of compact operators. (Chinese. English summary) **89k:47006**

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Emmanuele, Giovanni On the Dieudonné property. **89k:46024**

Fan, Peng (*with* Fong, C. K.) Operators similar to zero diagonal operators. **89i:47035**

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García López, Alfonsa Compact and absolutely summing operators on $C(K)$. (Spanish. English summary) **89k:47045**

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Kamowitz, Herbert (*with* Wortman, Dennis) Compact weighted composition operators on Sobolev related spaces. **89h:47043**

Khurana, Surjit Singh Extensions of certain compact operators on vector-valued continuous functions. **89d:47063**

Novitskiĭ, I. M. Integral representation of completely continuous operators in L_2. **89i:47056**

Płuciennik, Ryszard Conditions for compactness of integral operator on Musielak-Orlicz space of vector-valued functions. **89m:47026**

Ruston, Anthony F. ★ Fredholm theory in Banach spaces. **89a:47018**

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Sersouri, Abderrazzak Smoothness in spaces of compact operators. **89h:47062**

Tomczak-Jaegermann, Nicole Dualité des nombres d'entropie pour des opérateurs à valeur dans un espace de Hilbert. (English summary) [Duality of entropy numbers of operators with values in a Hilbert space] **89c:47027**

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47B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, p-summing operators, etc.

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— Subspaces of Lorentz-Marcinkiewicz operator spaces. **89d:47099**

— (*with* Kühn, Thomas) Entropy and eigenvalues of weakly singular integral operators. **89a:47073**

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— Notes on some inequalities for Hilbert space operators. **89i:47012**

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— Fractional powers of $(-\Delta)^m + M_q^{2m}$ with applications to trace class. **89i:47086**

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Boyadzhiev, Khristo N. New applications of Bernstein's inequality to the theory of operators: a local Sinclair lemma and a generalization of the Fuglede-Putnam theorem. **89a:47033**

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Berezanskiĭ, Yu. M. (*with* Ostrovskiĭ, V. L.; Samoĭlenko, Yu. S.) Expansion in eigenfunctions of families of commuting operators, and representations of commutation relations. **89d:47030**

Bhatia, Rajendra (*with* Sinha, K. B.) A unitary analogue of Kato's theorem on variation of discrete spectra. **89h:47017**

Bouldin, Richard Best approximation of a nonnormal operator in the trace norm. **89e:47013**

Chō, Muneo Joint spectra of commuting normal operators on Banach spaces. **89i:47006**

Exner, G. (*with* Sullivan, Patrick) Normal operators and the classes $\mathbf{A}_n$. **89h:47011**

Fujii, Junichi (*with* Nakamoto, Ritsuo) The Stein transformation on positive operators. **89a:47021**

Furuta, Takayuki $A \geq B \geq 0$ assures $(B^r A^p B^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p + 2r$. **89b:47028**

— $A \geq B \geq 0$ iff $(B^r A^p B^r)^{1/q} \geq B^{(p+2r)/q}$ for $r \geq 0$, $p \geq 0$, $q \geq 1$ with $(1+2r)q \geq p + 2r$. **89b:47027**

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Katsnel'son, V. È. Extremal and factorization properties of the radii of a problem on the representation of a matrix Hermitian positive function. I. (Russian) **89a:47028**

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Stochel, Jerzy Bartłomiej Subnormality and generalized commutation relations. **89j:47017**
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Carey, Richard W. Some remarks on principal currents and index theory for single and several commuting operators. **89i:47019**
Cowen, Carl C. Hyponormality of Toeplitz operators. **89f:47038**
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Derkach, V. A. (*with* Malamud, M. M.; Tsekanovskiĭ, È. R.) Sectorial extensions of a positive operator, and the characteristic function. **89f:47050**
Dijksma, Aalt (*with* de Snoo, Henk) Symmetric and selfadjoint relations in Kreĭn spaces. II. **89h:47052**
Exner, P. (*with* Šeba, P.) A simple model of thin-film point contact in two and three dimensions. **89k:81031**
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Pop, Florin A remark on a question of M. D. Choi and K. R. Davidson: "Perturbations of matrix algebras" [Michigan Math. J. **33** (1986), no. 2, 273–287; MR 87i:47058]. **89m:47040**
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— (*with* Hernández-Garcíadiego, C.; Paulsen, V. I.) Universal compressions of representations of $H^\infty(G)$. **89m:46092**
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— Spectral measures, boundedly σ-complete Boolean algebras and applications to operator theory. **89k:47068**
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— (*with* González, Manuel; Onieva, Victor M.) Totally incomparable Banach spaces and three-space Banach space ideals. **89a:46034**
— A note on generalized Tauberian operators. **89a:47059**
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— Fredholm theory in a Banach algebra of operators. **89c:47015**
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Eschmeier, Jörg ★ Analytische Dualität und Tensorprodukte in der mehrdimensionalen Spektraltheorie. (German) [Analytic duality and tensor products in multidimensional spectral theory] **89h:47047**
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47D35 Dual spaces of operator algebras and topological groups

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47D40 Algebras of unbounded operators

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— *see also* **Löffler, F., 89j:47029**
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Ôta, S. Unbounded representations of a $*$-algebra on indefinite metric space. (French summary) **89j:46060**
Robinson, Derek W. Integration of Lie algebras. **89d:17007**
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Sukochev, F. A. (*with* Chilin, V. I.) Description of closed convex symmetric sets of measurable operators. (Russian) **89b:46075**
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47D45 Applications to physics

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Barton, Thomas Joseph (*with* Dang, Trien Bang; Horn, Günther) Normal representations of Banach Jordan triple systems. **89c:46065**
Beckhoff, Ferdinand ★ Korovkin-Theorie in Algebren. (German) [Korovkin theory in algebras] **89b:46067**
Carey, Richard W. Some remarks on principal currents and index theory for single and several commuting operators. **89i:47019**
— (*with* Pincus, J. D.) On local index and the cocycle property for Lefschetz numbers. **89m:47007**
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Christensen, Erik (*with* Sinclair, Allan) Representations of completely bounded multilinear operators. **89f:46113**
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Eschmeier, Jörg Analytic index formulas for tensor product systems. **89f:47020**
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Gaşpar, Dumitru (*with* Suciu, Nicolae) On the structure of the subspectral representations of function algebras. **89m:46088**
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Korotkov, V. B. Algebraic properties of convolutions in $L_2(R_N)$. (Russian) **89f:47079**
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Trapani, Camillo States and derivations on quasi-$*$-algebras. **89j:47031**
Wilde, Alan C. Algebras of operators isomorphic to the circulant algebra. **89m:15011**
Xia, Dao Xing Trace formula for almost Lie algebra of operators and cyclic one-cocycles. **89h:17017**

47E05 Ordinary differential operators [see also 34B25, 58Fxx]

Abudov, A. A. Essential selfadjointness and a theorem on the separability of the Sturm-Liouville equation with variable operator coefficients on the half axis. (Russian) **89f:47070**
Bairamogly, M. The regularized trace of a differential operator of order $2n$ with an unbounded operator coefficient. (Russian) **89h:47067**
— (*with* Gashimov, I. F.) Discreteness of the spectrum of a one-term operator-differential equation of even order. (Russian. English and Azerbaijani summaries) **89h:47068**
Bakuradze, R. Sh. (*with* Stankevich, I. V.) Some properties of operators that commute with the Sturm-Liouville operator. (Russian. English and Georgian summaries) **89m:47041**
Bondarenko, N. P. Selfadjoint extensions of the minimal operator generated by a degenerate Sturm-Liouville operator-differential equation. (Russian. English summary) **89b:47068**
Burim, V. M. (*with* Kutovoĭ, V. A.) Conditions for the absence of condensation points of the discrete spectrum for the Sturm-Liouville equation with unbounded operator potential. (Ukrainian. Russian summary) **89f:47071**
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Filippenko, V. I. Multiplicity of the spectrum of a selfadjoint differential operator with slowly varying coefficients. (Russian) **89f:47072**
Fujita, Takahiko A fractional dimension, self-similarity and a generalized diffusion operator. **89m:47042**
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Howland, James S. Random perturbation theory and quantum chaos. **89h:47069**
Ismailov, Z. I. Extensions, without a spectrum, of the minimal operator generated by a first-order operator-differential expression. (Russian) **89g:47060**
Jódar, Lucas Explicit solutions for second order operator differential equations with two boundary value conditions. **89h:47070**
Kemp, R. R. D. Operators on $L_2(I) \oplus C^r$. **89c:47057**
Krall, A. M. Semibounded extensions of singular ordinary differential operators. **89k:47072**
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Malozemov, L. A. Eigenvalues of a perturbed almost periodic operator that are embedded into a continuous spectrum. **89i:47084**
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Okunev, I. I. Transformation of differential operators with periodic coefficients to block-diagonal form. (Russian) **89g:47061**
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Radzievskiĭ, G. V. Linear independence and completeness of derivative chains corresponding to a boundary value problem on a finite interval. (Russian) **89d:47109**
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Rynne, B. P. Multiparameter spectral theory of singular differential operators. **89j:47032**
Samarskaya, T. A. Equiconvergence of spectral expansions that correspond to nonselfadjoint extensions of a second-order differential operator. **89b:47069**
Slyusarchuk, V. E. Necessary and sufficient conditions for the invertibility of nonautonomous functional-differential operators. (Russian) **89d:47110**
Stankevich, I. V. *see* **Bakuradze, R. Sh., 89m:47041**
Storozh, O. G. Conditions for the maximal dissipativity of differential-boundary operators in a space of vector functions. (Russian) **89g:47062**
Talybov, T. I. The spectral singularity of a differential operator with unbounded periodic operator-valued coefficients. (Russian) **89k:47073**
Vagabov, A. I. Nonregular pencils of differential operators in a space of vector functions. **89k:47074**
Vlasov, V. V. Properties of solutions of a class of operator-differential equations. (Russian) **89e:47072**
Weidmann, Joachim ★ Spectral theory of ordinary differential operators. **89b:47070**
Zhaksylykov, K. M. Weighted estimates for the resolvent of the Sturm-Liouville operator. (Russian. Kazakh summary) **89d:47111**

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Amrein, W. O. (*with* Berthier, Anne-Marie; Georgescu, V.) Weighted estimates for differential operators with operator-valued coefficients. (French summary) **89a:34066**
Anoshchenko, O. A. The inverse scattering problem for the Schrödinger equation with a potential that has periodic asymptotics. (Russian) **89b:34053**
Arutyunyan, T. N. The canonical Dirac operator with a partially given spectrum. (Russian. Armenian summary) **89a:34029**
Aslanov, G. I. On the asymptotic distribution of eigenvalues of operator-differential equations of order $2n$. (Russian. English and Azerbaijani summaries) (Not in MR)
Azé, D. An example of stability for the minima of a sequence of DC functions: homogenization for a class of nonlinear Sturm-Liouville problems. **89j:49003**
Baĭkuziev, K. B. Spectral problems. **89b:34055**
Bairamogly, M. (*with* Kurbanova, R. D.) Asymptotic formulas for the sum of powers of negative eigenvalues of an abstract Sturm-Liouville operator with a singularity at zero. (Russian. English and Azerbaijani summaries) **89h:34018**
— Asymptotics of the number of negative eigenvalues, with respect to a small parameter, of the Sturm-Liouville operator equation. (Russian. English and Azerbaijani summaries) (Not in MR)
Baĭzaev, S. (*with* Makhmudov, Sh. R.) The Noethericity and index of ordinary differential operators with bounded coefficients. (Russian. Tajiki summary) **89e:34009**
Banerjee, Salil K. *see* **Das, Jyoti, 89d:34046**
Beals, Richard (*with* Deift, Percy; Tomei, Carlos) Inverse scattering for selfadjoint nth order differential operators on the line. **89b:34056**
Berthier, Anne-Marie *see* **Amrein, W. O.; et al., 89a:34066**
Bollé, D. (*with* Gesztesy, F.; Klaus, M.) Scattering theory for one-dimensional systems with $\int dx\,V(x) = 0$. **89k:34028a**
— (*with* Gesztesy, F.; Klaus, M.) Errata: "Scattering theory for one-dimensional systems with $\int dx\,V(x) = 0$". **89k:34028b**
Božinov, Nikolaĭ S. Representation of multipliers of eigen and joint function expansions of nonlocal spectral problems for first and second order differential operators. **89h:34020**
Budaev, V. D. The convergence of spectral expansions at the point of discontinuity of the coefficients of a linear nonselfadjoint differential operator of order $2m$. **89a:34030**
Budak, A. B. (*with* Denisov, V. N.) Some properties of the eigenfunctions of the Sturm-Liouville operator with discontinuous coefficients. (Russian) (Not in MR)
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Carmona, René Exercises for a book on random potentials. **89f:60066**
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Chakravarty, N. K. (*with* Roy Paladhi, Swapna) Errata: "On the spectral resolution of a differential operator. II" [J. Indian Inst. Sci. **66** (1986), no. 3, 127–153; MR 88d:34025]. **89a:34031**
— (*with* Roy Paladhi, Swapna) On the spectral resolution of a differential operator. III. **89f:34031**
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Park, Jong An (*with* Bae, Jong Sook) A surjectivity theorem for a nonlinear operator with Altman's directional contractors. **89h:47106**
Płuciennik, Ryszard The superposition operator in Musielak-Orlicz spaces of vector-valued functions. **89e:47097**
Ponosov, A. V. On the theory of locally defined operators. (Russian) **89b:47095**
Randriananja, Raymond Sur les h-opérateurs. (English summary) [On the h-operators] **89c:47085**
Ricceri, Biagio Smooth extensions of Lipschitzian real functions. **89m:47066**
Rothblum, Uriel G. *see* **Eaves, B. Curtis, 89b:47093**
Shaposhnikova, T. O. The superposition operator in classes of multipliers of S. L. Sobolev spaces. (Russian) **89m:47067**
Tyrygin, I. Ya. A theorem of Stone type for operators that are continuous on a compactum. (Russian) **89m:47068**
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Volkmer, Hans (*with* Weber, Hans) Nonlinear transformations on spaces of continuous functions. **89d:47146**
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Azé, D. An inversion theorem for set-valued maps. **89h:58019**
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Bardaro, Carlo (*with* Ceppitelli, Rita) Minimax inequalities in Riesz spaces. **89h:90260**
Berezhnoĭ, E. I. (*with* Zabreĭko, P. P.) Some interpolation theory for nonlinear operators. **89c:46096**
Blot, Joël Calculus of variations in mean and convex Lagrangians. **89k:58053**
Bottaro Aruffo, Ada $(\mathscr{L} \times \mathscr{B}(\rho))$-measurability and convergence in measure. (Italian. English summary) **89c:28013**
Bressan, Alberto (*with* Colombo, Giovanni) Extensions and selections of maps with decomposable values. **89j:54021**
Capri, O. N. (*with* Fava, N. A.) A generalization of Yano's extrapolation theorem. **89i:42028**
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Ceron, Suely do Carmo Siqueira Convergence to equilibrium of hyperbolic equations and systems. (Portuguese. English summary) **89f:47061**
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Karakostas, G. (*with* Staikos, V. A.) μ-like-continuous operators and some oscillation results. **89k:35243**
Komkov, V. The critical points theory and the variational principles in continuous mechanics of solids. (Russian and Polish summaries) **89k:49031**
Kõrezlioğlu, Hayri (*with* Üstünel, Ali Süleyman) An Itô formula for processes with values in an abstract Wiener space. **89i:60113**
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Milman, Vitali D. Diameter of a minimal invariant subset of equivariant Lipschitz actions on compact subsets of $\mathbf{R}^k$. **89m:54053**
Morchało, Jarosław Integral equivalence of two systems of integro-differential equations. **89a:45026**
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Nakamura, Yoshihiro *see* **Hiai, Fumio, 89c:46072**
Naniewicz, Zdzisław On some nonconvex variational problems related to hemivariational inequalities. **89j:73024**
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Phan Quốc Khánh An open mapping theorem for families of multifunctions. **89d:58018**
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Qi, Gui Jie *see* **Guo, Da Jun; et al., 89e:58024**
Rassias, Themistocles M. The stability of linear mappings and some problems on isometries. **89f:47027**
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Uglanov, A. V. The Newton-Leibniz formula on Banach spaces and the approximation of functions of an infinite-dimensional argument. (Russian) **89m:46085**
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— *see also* **Berezhnoĭ, E. I., 89c:46096**
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49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

49–01 Elementary exposition; textbooks

Akhiezer, N. I. ★ The calculus of variations. **89e:49001**
Alekseev, V. M. (*with* Tikhomirov, V. M.; Fomin, S. V.) ★ Optimal control. **89e:49002**
(Alferieff, Michael E.) *see* **Akhiezer, N. I., 89e:49001**
Fomin, S. V. *see* **Alekseev, V. M.; et al., 89e:49002**
Sewell, M. J. ★ Maximum and minimum principles. **89b:49001**
Tikhomirov, V. M. *see* **Alekseev, V. M.; et al., 89e:49002**
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Borisovich, Yu. G. (*with* Gel′man, B. D.; Myshkis, A. D.; Obukhovskiĭ, V. V.) ★ Введение в теорию многозначных отображений. (Russian) [Introduction to the theory of multivalued mappings] **89f:49014**
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Chui, C. K. (*with* Chen, Guan Rong) ★ Linear systems and optimal control. **89m:93001**
Fedoryuk, M. V. ★ Обыкновенные дифференциальные уравнения. (Russian) [Ordinary differential equations] **89h:34001**
Gel′man, B. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Mattila, Pertti ★ Lecture notes on geometric measure theory. **89e:49037**
Myshkis, A. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
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Razumovskiĭ, O. S. ★ Экстремальные закономерности. (Russian) [Extremal regularities] **89e:00022**
Tikhomirov, V. M. Convex analysis. (Russian) (*see* **89f:41001**)

49–02 Advanced exposition (research surveys, monographs, etc.)

Akulenko, L. D. ★ Асимптотические методы оптимального управления. (Russian) [Asymptotic methods for optimal control] **89b:49002**
Bertsekas, Dimitri P. ★ Dynamic programming. **89f:49001**
Jamshidi, M. *see* **Malek-Zavarei, Manu, 89h:49001**
Malek-Zavarei, Manu (*with* Jamshidi, M.) ★ Time-delay systems. **89h:49001**
Mordukhovich, B. Sh. ★ Методы аппроксимаций в задачах оптимизации и управления. (Russian) [Approximation methods in problems of optimization and control] **89m:49001**
Tikhomirov, V. M. Convex analysis. (Russian) (*see* **89f:41001**)

Items with secondary classifications in 49–02

Aubin, Jean-Pierre (*with* Ekeland, Ivar) ★ Прикладной нелинейный анализ. (Russian) [Applied nonlinear analysis] **89g:58001**
Chernous′ko, F. L. ★ Оценивание фазового состояния динамических систем. (Russian) [Estimation of the phase state of dynamical systems] **89k:49028**
(Darkhovskiĭ, B. S.) *see* **Aubin, Jean-Pierre, 89g:58001**
Ekeland, Ivar *see* **Aubin, Jean-Pierre, 89g:58001**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89f:41001**
Gurman, V. I. ★ Принцип расширения в задачах управления. (Russian) [The extension principle in control problems] **89m:49056**
(Magaril-Il′yaev, G. G.) *see* **Aubin, Jean-Pierre, 89g:58001**
(Moreau, J.-J.) *see* **Topics in nonsmooth mechanics, 89c:00054**
Morozov, V. A. ★ Методы регуляризации неустойчивых задач. (Russian) [Methods for the regularization of unstable problems] **89m:65056**
(Panagiotopoulos, P. D.) *see* **Topics in nonsmooth mechanics, 89c:00054**
(Strang, Gilbert) *see* **Topics in nonsmooth mechanics, 89c:00054**
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Yakowitz, S. Theoretical and computational advances in differential dynamic programming. (Russian and Polish summaries) (Not in MR)

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49–03 Historical (must also be assigned at least one classification number from Section 01)

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(Bott, Raoul) *see* **Morse, Marston, 89c:01099**
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49–06 Proceedings, conferences, etc.

(Kisielewicz, Michał) *see* **Differential equations and optimal control, 89a:49001**
(Korotkiĭ, A. I.) *see* **Some methods for positional and programmed control, 89c:49001**
(Maksimov, V. I.) *see* **Some methods for positional and programmed control, 89c:49001**
(Pontryagin, L. S.) *see* **Optimal control and differential games,** (Not in MR)
(Sosulski, Władysław) *see* **Differential equations and optimal control, 89a:49001**
(Szép, J.) *see* **Mathematical analysis and systems theory, 89a:49002**
(Tallós, P.) *see* **Mathematical analysis and systems theory, 89a:49002**

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Differential equations and optimal control ★ Differential equations and optimal control. **89a:49001**
Mathematical analysis and systems theory ★ Mathematical analysis and systems theory. III. **89a:49002**
Optimal control and differential games ★ Оптимальное управление и дифференциальные игры. (Russian) [Optimal control and differential games] (Not in MR)
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Mathematicians ★ Differential equations and optimal control. **89a:49001**
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Items with secondary classifications in 49–06

(Ball, J. M.) *see* **Material instabilities in continuum mechanics, 89f:73005**
(Bensoussan, A.) *see* **Analysis and optimization of systems, 89c:00031**
(Bermúdez de Castro, Alfredo) *see* **Control of partial differential equations, 89j:00028**
(Giaquinta, Mariano) *see* **Topics in calculus of variations, 89k:58051**
(Hildebrandt, Stefan) *see* **Calculus of variations and partial differential equations, 89f:00022** *and* **Partial differential equations and calculus of variations, 89g:00010**
(Kinderlehrer, David) *see* **Calculus of variations and partial differential equations, 89f:00022**
(Leis, R.) *see* **Partial differential equations and calculus of variations, 89g:00010**
(Lions, J.-L.) *see* **Analysis and optimization of systems, 89c:00031**
(Marino, Antonio) *see* **Nonlinear variational problems, 89k:35004**
(Miranda, Mario) *see* **Calculus of variations and partial differential equations, 89f:00022**
(Moreau, J.-J.) *see* **Topics in nonsmooth mechanics, 89c:00054**
(Murthy, M. K. Venkatesha) *see* **Nonlinear variational problems, 89k:35004**
(Panagiotopoulos, P. D.) *see* **Topics in nonsmooth mechanics, 89c:00054**
(Strang, Gilbert) *see* **Topics in nonsmooth mechanics, 89c:00054**

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Analysis and optimization of systems ★ Analysis and optimization of systems. **89c:00031**
Antibes ★ Analysis and optimization of systems. **89c:00031**
Calculus of variations and partial differential equations ★ Calculus of variations and partial differential equations. **89f:00022**
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Analysis and Optimization of Systems ★ Analysis and optimization of systems. **89c:00031**
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Optimal Control of Systems Governed by Partial Differential Equations ★ Control of partial differential equations. **89j:00028**
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— ★ Topics in calculus of variations. **89k:58051**
Material instabilities in continuum mechanics ★ Material instabilities in continuum mechanics. **89f:73005**
Montecatini Terme ★ Topics in calculus of variations. **89k:58051**
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Topics in Calculus of Variations ★ Topics in calculus of variations. **89k:58051**
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Topics in nonsmooth mechanics ★ Topics in nonsmooth mechanics. **89c:00054**
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49Axx Existence theory for optimal solutions

49A05 Free problems in one independent variable

Clarke, Frank H. (*with* Loewen, Philip D.) Intermediate existence and regularity in the calculus of variations. (Not in MR)
Davie, A. M. Singular minimizers in the calculus of variations. **89e:49003**
— Singular minimisers in the calculus of variations in one dimension. **89c:49002**
Ekeland, Ivar Some variational problems arising from mathematical economics. **89i:49001**
Heinricher, Arthur C. (*with* Mizel, Victor J.) A new example of the Lavrentiev phenomenon. **89i:49002**
Kudryavtsev, L. D. Existence and uniqueness of solutions of variational problems. **89f:49002**
— Variational problems with free ends on bounded and unbounded intervals. (Russian) **89g:49002**
Kumar, Rajive[1] *see* **Singh, Bani, 89k:49001**

Laptev, S. A. Solution of a variational problem for dynamic potential. **89m:49002**
Loewen, Philip D. *see* **Clarke, Frank H.**, (Not in MR)
Mizel, Victor J. *see* **Heinricher, Arthur C., 89i:49002**
Owen, Nicholas C. On a variational problem from one-dimensional nonlinear elasticity. **89f:49003**
Singh, Bani (*with* Kumar, Rajive[1]) Brachistochrone problem in nonuniform gravity. **89k:49001**

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Mizel, Victor J. The Lavrentiev phenomenon in both deterministic and stochastic optimization problems. **89e:49006**
Muminov, G. M. An unimprovable estimate of a nonoscillation interval for a class of second-order linear differential equations. **89f:34047**
Zadorozhnii, V. G. Solution of some equations with variational derivatives. (Russian) **89d:35177**

49A10 Problems involving ordinary differential equations, optimal control

Carlson, Dean A. On the existence of sporadically catching-up optimal solutions for infinite-horizon optimal control problems. **89c:49003**
Chentsov, A. G. *see* **Khodakovskiĭ, A. N., 89c:49004**
Gabasov, R. (*with* Kostyukova, O. I.; Kruchenok, Yu. L.) Optimization of a linear dynamical system with nonlinear input. (Russian. English summary) **89h:49002**
Jovanov, Djurica The existence of an optimal control for a linear problem with a variable control domain. (Serbo-Croatian. English summary) **89m:49003**
Khodakovskiĭ, A. N. (*with* Chentsov, A. G.) On a problem of programmed control with a nonsmooth criterion. (Russian) **89c:49004**
Kostyukova, O. I. *see* **Gabasov, R.; et al., 89h:49002**
Kruchenok, Yu. L. *see* **Gabasov, R.; et al., 89h:49002**
Saburov, M. S. Existence theorems in a number of optimal control problems. (Russian) **89b:49003**

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Arendt, Wolfgang Vector-valued Laplace transforms and Cauchy problems. **89a:47064**
Baisakalov, I. B. Optimal control of a stochastic system under conditions of uncertainty. (Russian) **89e:49008**
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Chikin, M. G. Systems with phase constraints. (Russian. English summary) **89d:49040**
Chukwu, E. N. The time-optimal control of nonlinear delay equations. **89e:34132**
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Fattorini, H. O. Optimal control of nonlinear systems: convergence of suboptimal controls. I. **89b:93066**
Geerts, Ton A necessary and sufficient condition for solvability of the linear-quadratic control problem without stability. **89d:49035**
Gorelik, S. B. Existence theorems for optimal controls in systems with deviating argument of neutral type. (Russian. English summary) **89f:34116**
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Rogowski, Andrzej Existence of solution of nonconvex optimization in Banach space. **89m:49011**
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Schmidt, Günther *see* **Kuhn, Udo, 89e:93096**
Seidman, Thomas I. (*with* Wolfe, Peter) Equilibrium states of an elastic conducting rod in a magnetic field. **89f:73069**
Stoyanova, T. G. *see* **Dochev, Docho T., 89d:34124**
Wolfe, Peter *see* **Seidman, Thomas I., 89f:73069**
Yakubovich, V. A. A frequency theorem for periodic systems and the theory of analytic construction of controllers. (Russian) **89f:93033**
Yu, Jing Yuan (*with* Guo, Bao Zhu; Zhu, Guang Tian) Control of a semidiscrete population evolution system. (Chinese. English summary) **89a:92053**
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49A21 Free problems in two or more independent variables

Aviles, Patricio (*with* Giga, Yoshikazu) A mathematical problem related to the physical theory of liquid crystal configurations. **89c:49005**
Chrastina, Jan Another approach to the classical calculus of variations. III. **89e:49004**
Congedo, Giuseppe Equilibrium of a rotating fluid mass. (Italian. English summary) **89i:49003**
Giga, Yoshikazu *see* **Aviles, Patricio, 89c:49005**
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Hong, Min Chun Existence and partial regularity in the calculus of variations. **89f:49004**
Khapaev, Mikhail Mikhaĭlovich *see* **Osipov, S. G.; et al.**, (Not in MR)
Kruzhalov, O. A. An example of a quasiconvex but not polyconvex function. (Russian) **89b:49004**
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Raymond, J.-P. Champs hamiltoniens, relaxation et existence de solutions en calcul des variations. (English summary) [Hamiltonian fields, relaxation and existence of solutions in the calculus of variations] **89f:49005**
Sadygov, M. A. Existence of minimizing generalized and approximate solutions. (Russian. English and Azerbaijani summaries) **89g:49003**
Schianchi, R. A review of some nonconvex problems. (*see* **89f:73005**)
Tahraouri, R. Théorèmes d'existence en calcul des variations et applications à l'élasticité non linéaire. (English summary) [Existence theorems in the calculus of variations and applications to nonlinear elasticity] **89k:49002**
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Shen, Yao Tian (*with* Guo, Xin Kang) On the existence of infinitely many critical points of the even functional $\int_\Omega F(x,u,Du)\,dx$ in $W_0^{1,p}$. **89c:35048**
Stojanović, Srdjan Injection of ideal fluid from two slots into a stream. **89k:76012**
Strang, Gilbert (*with* Kohn, Robert V.) Optimal design of a two-way conductor. **89j:58018**

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Adali, S. (*with* Sadek, Ibrahim S.; Sloss, J. M.; Bruch, J. C., Jr.) Distributed control of layered orthotropic plates with damping. **89d:49001**
Bruch, J. C., Jr. *see* **Adali, S.; et al., 89d:49001**
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Cabib, Elio A relaxed control problem for two-phase conductors. (Italian summary) **89k:49003**
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Chebotarëv, A. Yu. Optimal control in a flow problem for the equations of an ideal fluid. (Russian) **89c:49006**
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Denkowski, Z. (*with* Migorski, S.) Control problems for parabolic and hyperbolic equations via the theory of G and Γ convergence. **89b:49005**
Di Vincenzo, R. (*with* Giusti, L.) Orlicz-Sobolev spaces and existence theorems for an optimal control problem for a hyperbolic differential equation. (Italian) **89c:49008**
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— Solution of some optimal control problems by the iterative method. (Russian) **89h:49003**
Grisvard, Pierre Contrôlabilité exacte avec conditions mêlées. (English summary) [Exact controllability with mixed boundary conditions] **89a:49005**
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Flåm, S. D. Variational inequalities and the convex feasibility problem. **89g:49011**

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— (*with* Bouchitté, Guy; El Mabrouk, Mongi) Formulations variationnelles pour des équations elliptiques semi-linéaires avec second membre mesure. (English summary) [Variational formulations of semilinear elliptic equations involving measures] **89e:35055**
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49A51 Fréchet and Gâteaux differentiability

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Zolésio, J.-P. *see* **Delfour, M. C., 89h:49009** *and* **Sokołowski, Jan, 89m:73033**

49A55 Duality theory

Abergel, Frédéric (*with* Temam, Roger) Duality methods for nonqualified distributed control problems. (*see* **89j:00028**)
Albul, A. V. A method for solving minimax control problems. (Russian) **89h:49011**
Badriev, I. B. (*with* Karchevskiĭ, M. M.) ★ Методы двойственности в прикладных задачах. (Russian) [Duality methods in applied problems] **89d:49015**
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Nieuwenhuis, J. W. (*with* Willems, J. C.) Duality for linear time invariant finite-dimensional systems. **89j:49009**
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Lions, J.-L. Contrôlabilité exacte et perturbations singulières. II. La méthode de dualité. [Exact controllability and singular perturbations. II. The duality method] **89b:49061**
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Martínez-Legaz, Juan-Enrique Quasiconvex duality theory by generalized conjugation methods. **89j:90203**
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Nožička, František (*with* Grygarová, Libuše; Lommatzsch, Klaus) ★ Geometrie konvexer Mengen und konvexe Analysis. (German) [Geometry of convex sets and convex analysis] **89k:52001**
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Singer, Ivan Generalizations of convex supremization duality. **89b:90195**
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49A60 Optimal stochastic control [see also 93Exx]

Baĭsakalov, I. B. Optimal control of a stochastic system under conditions of uncertainty. (Russian) **89e:49008**
Chernous'ko, F. L. Approximation of the attainability sets of controllable systems. (Russian **89b:49021**
Fujisaki, Masatoshi Bellman equation with unbounded coefficients and its applications. **89g:49025**
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Karabash, M. A. Feedback controls for stochastic equations with monotone coefficients. (Russian) **89j:49011**
Konyukhova, T. A. (*with* Rotar′, V. I.) Solutions that are optimal in probability of a problem on a linear stochastic controller. (Russian) (*see* **89j:60003**)
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Ghosh, Mrinal K. *see* **Borkar, V. S., 89h:93054**
Ishii, Hitoshi On uniqueness and existence of viscosity solutions of fully nonlinear second-order elliptic PDEs. **89m:35070**
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49A99 None of the above, but in this section

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49Bxx Necessary conditions and sufficient conditions for optimality

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49B05 Free problems in one independent variable

Belov, Yu. A. (*with* Kas′yanyuk, V. S.) On the set of values of a linear functional subject to constraints involving *m* other linear functionals. (Russian) **89e:49009**

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Pleshchinskiĭ, N. B. Zur Optimierung einer Klasse von Integralfunktionalen im Raum der stetigen Funktionen. [On the optimization of a class of integral functionals in the space of continuous functions] **89i:49010**

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49B10 Problems involving ordinary differential equations, optimal control

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— On the theory of optimal control in an infinite time interval. (Not in MR)

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Carter, Thomas E. Effects of propellant mass loss on fuel-optimal rendezvous near Keplerian orbit. **89m:49032**

Chkhe Khen Ir Optimality and suboptimality criteria in a problem of the optimization of a dynamical system with a variable set of controls. (Russian) **89j:49013**

Clarke, Frank H. (*with* Loewen, Philip D.) State constraints in optimal control: a case study in proximal normal analysis. **89a:49019**

— (*with* Vinter, R. B.) The relationship between the maximum principle and dynamic programming. **89f:49021**

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Devadze, D. Sh. An optimal problem for second-order linear differential equations with boundary conditions of Bitsadze-Samarskiĭ type. (Russian. English and Georgian summaries) **89g:49027**

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Ivonis, È. An optimization method for a linear multidimensional dynamical system with respect to controls and parameters with polyhedral constraints. I. (Russian. English and Lithuanian summaries) **89i:49015**

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Konstantinov, G. N. Sufficient conditions for optimality involving the Krotov vector function. I. (Russian. English summary) **89a:49020**

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Kawski, Matthias A necessary condition for local controllability. **89a:49038**
Khromov, A. P. The method of Lagrange multipliers and L. S. Pontryagin's maximum principle. (Russian) (*see* **89j:00035**)
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Kim, Chang Son The maximum principle of singular control of the variable distributive retardation. (Korean. English summary) (Not in MR)
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Kostyukova, O. I. *see* **Gabasov, R.; et al., 89h:49002**
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Kupka, I. A. K. ★ Introduction to the theory of systems. **89e:93001**
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Lindner, Ewald H. On optimizing storage power plant problems including spillage water by variational methods. **89d:90083**
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— Second-order necessary conditions in optimal control problems with time delays. **89e:34135**
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Mordukhovich, B. Sh. ★ Методы аппроксимаций в задачах оптимизации и управления. (Russian) [Approximation methods in problems of optimization and control] **89m:49001**
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— Approximate maximum principle via Dubivitskiĭ-Milyutin theory. **89e:49024**
— Suboptimality via Ioffe-Tihomirov theory. **89e:49025**
Sedykh, L. G. (*with* Garnaev, A. Yu.) Optimal control of the purification of sewage by active silt. (Russian) **89b:90056**
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Sussmann, H. J. Recent developments in the regularity theory of optimal trajectories. **89i:49019**
Tynyanskiĭ, N. T. Perturbation methods for dynamic extremal problems. (Russian) **89e:49026**
Varshanidze, L. Kh. On a problem on the numerical solution of a time-optimality problem for linear systems with variable structure. (Russian. English summary) (Not in MR)
Vinter, R. B. New results on the relationship between dynamic programming and the maximum principle. **89a:49026**
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Yunusov, M. K. Optimal control of an ecosystem of three trophic levels. (Russian. Tajiki summary) **89g:92059**
Zabello, L. E. An approximation in control systems with aftereffect. (Russian. English summary) **89d:34132**
Zelikin, M. I. ★ Оптимальное управление и вариационное исчисление. (Russian) [Optima control and the calculus of variations] **89g:49001**

49B21 Free problems in two or more independent variables

Aguilera, N. E. (*with* Caffarelli, Luis A.; Spruck, Joel) An optimization problem in heat conduction. **89h:49016**
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Evans, Lawrence C. (*with* Gariepy, R. F.) Blow-up, compactness and partial regularity in the calculus of variations. **89e:49014**
Gariepy, R. F. *see* **Evans, Lawrence C., 89e:49014**
Giaquinta, Mariano The problem of the regularity of minimizers. **89d:49020**
— (*with* Ivert, Per-Anders) Partial regularity for minima of variational integrals. **89d:49021**
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Malek-Madani, Reza (*with* Smith, Penny D.) Lipschitz continuity of local minimizers of a nonconvex functional. **89h:49017**
Matano, Hiroshi *see* **Gurtin, Morton E., 89j:49015**
Mortola, Stefano (*with* Steffé, Sergio) A two-dimensional homogenization problem. (Italian. English summary) **89f:49024**
Pankov, A. A. Extremal problems with nonstabilizing integrands. (Not in MR)
Pokhozhaev, S. I. On a constructive method of the calculus of variations. **89i:49017**
Reshetnyak, Yu. G. Extremum conditions for a class of functionals of the calculus of variations with a nonsmooth integrand. (Russian) **89b:49031**
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Serëgin, G. A. On the differentiability of local extremals of variational problems of the mechanics of rigidly viscoplastic media. (Russian) **89b:49032**
Sivaloganathan, J. Implications of rank one convexity. (French summary) **89g:49030**
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Aviles, Patricio (*with* Giga, Yoshikazu) A mathematical problem related to the physical theory of liquid crystal configurations. **89c:49005**
Bakelman, Ilya J. Geometric concepts and methods in nonlinear elliptic Euler-Lagrange equations. **89j:58016**

Chrastina, Jan Another approach to the classical calculus of variations. III. **89e:49004**

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Giga, Yoshikazu *see* **Aviles, Patricio, 89c:49005**

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Kruzhalov, O. A. An example of a quasiconvex but not polyconvex function. (Russian) **89b:49004**

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Olver, Peter J. (*with* Sivaloganathan, J.) The structure of null Lagrangians. **89g:58051**

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49B22 Problems involving partial differential equations, optimal control

Aida-zade, K. R. Optimal control of evolution processes. (Russian. English and Azerbaijani summaries) **89b:49033**

Al-Janabi, A. Samee A. R. The Pontryagin maximum principle for distributed parameter systems. **89e:49015**

Aronov, Irina *see* **Chen, Goong; et al., 89c:49014**

Barbu, Viorel (*with* Barron, E. N.) Bang-bang controllers for an optimal cooling problem. (Russian and Polish summaries) **89b:49034**

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Belfekih, A. *see* **El Jaï, A., 89b:49037**

Bonnans, J. Frédéric (*with* Casas Rentería, Eduardo) Contrôle de systèmes elliptiques semilinéaires comportant des contraintes sur l'état. (English summary) [Control of semilinear elliptic systems with state constraints] **89d:49022**

Bratus′, A. S. (*with* Myshkis, A. D.) Extremum conditions in spectral isoperimetric problems with a varying boundary. (Russian) **89e:49016**

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Dzhorbenadze, A. N. An optimal control problem for systems that can be described by oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89e:49017**

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— An optimal control problem for systems that can be described by the static and oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89b:49035**

— Optimal control for a nonlinear problem in elasticity theory. (Russian. English and Georgian summaries) **89b:49036**

El Jaï, A. (*with* Belfekih, A.) Sur le choix de la répartition spatiale du contrôle dans les systèmes distribués. (English summary) [On the optimal spatial distribution of the control in distributed systems] **89b:49037**

Fernández, Luis A. *see* **Casas Rentería, Eduardo, (89j:00028)**

Gvilava, S. G. The maximum principle for a third-order partial differential equation of hyperbolic type. (Russian. English summary) **89c:49015**

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Mansimov, K. B. Some necessary conditions for optimality for a class of systems with distributed parameters. (Russian) **89b:49038**

— On the optimality of boundary controls in a system with distributed parameters. (Russian. English and Georgian summaries) **89k:49015**

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Meladze, G. V. An optimal control problem for first-order quasilinear differential equations on a plane with nonlocal boundary conditions. (Russian) (*see* **89j:00030**)

Mignot, Fulbert *see* **Lunéville, Eric, (89j:00028)**

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— A constructive method for the distributed control of thin plates. **89j:49017**

— Variational method for the distributed control of a vibrating beam. **89c:49016**

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Adali, S. (*with* Sadek, Ibrahim S.; Sloss, J. M.; Bruch, J. C., Jr.) Distributed control of layered orthotropic plates with damping. **89d:49001**

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Biswas, Saroj K. (*with* Ahmed, N. U.) Optimal control of large space structures governed by a coupled system of ordinary and partial differential equations. **89m:70067**

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Delfour, M. C. (*with* Zolésio, J.-P.) Shape sensitivity analysis via a penalization method. (French summary) **89k:93071**

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Kowalewski, Adam Optimal control with initial state not a priori given and boundary condition involving a delay. **89b:34172**

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Tsintsadze, Z. A. Necessary conditions for extremality in some smooth-convex problems. (Russian. English and Georgian summaries) **89k:90133**

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Barbu, Viorel The time optimal problem for a class of nonlinear systems. **89b:49039**
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Barron, E. N. *see* **Barbu, Viorel; et al., 89h:49018**
Bonnans, J. Frédéric (*with* Casas Rentería, Eduardo) Optimal control of state-constrained unstable systems of elliptic type. (*see* **89j:00028**)
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Dzhenaliev, M. T. An absolute minimum for control problems. (Russian. Kazakh summary) **89m:49038**
Ichikawa, Akira Stability and control of linear periodic systems. **89k:49016**
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Serovaĭskiĭ, S. Ya. Variational problems with an operator criterion for optimality. (Russian. Kazakh summary) **89c:49018**
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Fattorini, H. O. (*with* Frankowska, H.) Necessary conditions for infinite-dimensional control problems. **89h:90256**
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Jahn, Johannes Parametric approximation problems arising in vector optimization. **89e:90100**
Kopets, M. M. Optimal control of a linear system with delay in the control in a Hilbert space. (Russian) **89a:34087**
Kotarski, Wiesław Characterization of Pareto optimal points in problems with multi-equality constraints. **89m:90151**
Łędzewicz-Kowalewska, Urszula Application of the method of contractor directions to the Dubovitskiĭ-Milyutin formalism. **89b:90226**
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Shi, Shu Zhong Optimal control of strongly monotone variational inequalities. **89d:49009**
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Tsintsadze, Z. A. Necessary conditions for extremality in some smooth-convex problems. (Russian. English and Georgian summaries) **89k:90133**
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49B34 Problems involving functional relations other than differential equations

Bistrickas, V. The maximum principle for discrete-continuous control systems. (Russian. English and Lithuanian summaries) **89j:49018**
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Davideanu, Cătălina Maximum principle for control problems governed by bilinear finite-dimensional inequalities. **89k:49017**
Gurman, V. I. Models and optimality conditions for discrete-continuous processes. (Russian and Polish summaries) (Not in MR)
Ibrahim, Essam Y. (*with* Lovass-Nagy, V.; Mukundan, Rangaswamy; Schilling, Robert J.) Free final-time optimal control of descriptor systems. **89g:49033**
Ivonis, È. An optimization method for a linear multidimensional dynamical system with respect to controls and parameters with polyhedral constraints. II. (Russian. English and Lithuanian summaries) (Not in MR)
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Makhmudov, È. N. Necessary conditions for problems of optimal control that are describable by differential inclusions with distributed parameters. **89m:49039**
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Zhu, Qi Ji Vector-valued measures and the maximum principle for Fredholm systems. (Chinese. English summary) **89i:49018**

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Hoffmann, Armin Pointwise optimality criteria for optimal control problems governed by integral state relations. I. **89d:93054**
Kuprava, T. K. (*with* Markozashvili, N. I.) A periodic optimal control problem for hereditary systems. (Russian. English and Georgian summaries) **89m:49063**
Lin, Jing Yue (*with* Yang, Zi Hou) Optimal control problems for singular systems. **89e:93133**
Markozashvili, N. I. *see* **Kuprava, T. K., 89m:49063**
Pereira, F. M. F. L. *see* **Vinter, R. B., 89b:49029**
Pinker, Aron Applications of control theory methods to warfare problems. **89m:90188**
Puel, Jean-Pierre Some results on optimal control for unilateral problems. **89m:49017**
Rempała, Ryszarda (*with* Zabczyk, J.) On the maximum principle for deterministic impulse control problems. **89m:49037**
Vinter, R. B. Optimality and sensitivity of discrete time processes. (Russian and Polish summaries) **89k:93141**
— (*with* Pereira, F. M. F. L.) A maximum principle for optimal processes with discontinuous trajectories. **89b:49029**
Yang, Zi Hou *see* **Lin, Jing Yue, 89e:93133**
Zabczyk, J. *see* **Rempała, Ryszarda, 89m:49037**

49B36 Optimal solutions belonging to restricted classes

Burdukovskiĭ, A. N. Conditions for the optimality of singular controls in the Goursat-Darboux problem. (Russian) **89k:49018**
Encheva, T. I. (*with* Levin, A. Yu.) Localization of zeros of quasipolynomials that arise in a linear time-optimal control problem. (Russian) **89j:49019**
Gabysheva, L. N. (*with* Kanibolot·skiĭ, M. A.) Optimization of the mass of a layered spherical shell made up of a finite collection of materials. (Russian) **89h:49020**
Kanibolot·skiĭ, M. A. *see* **Gabysheva, L. N., 89h:49020**
Kawski, Matthias Control variations with an increasing number of switchings. **89b:49042**
Kryazhimskiĭ, A. V. On the positional regularizing algorithms for control dynamical systems. **89b:49043**
Lamnabhi-Lagarrigue, F. Singular optimal control problems: on the order of a singular arc. **89b:49044**
Levin, A. Yu. *see* **Encheva, T. I., 89j:49019**
Schättler, Heinz On the local structure of time-optimal bang-bang trajectories in $\mathbf{R}^3$. **89a:49024**
— The local structure of time-optimal trajectories in dimension three under generic conditions. **89g:49034**
Shushlyapin, E. A. On the equivalence of a piecewise-constant control with a known numbe of switchings and an arbitrary amplitudinally bounded control in a terminal problem for a linear nonstationary system. (Russian) (*see* **89c:00012**)
Sussmann, H. J. Recent developments in the regularity theory of optimal trajectories. **89i:49019**
Zavalishchin, S. T. Programming of singular controls in the Lagrange problem in Pontryagi form. (Russian) **89a:49025**

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Ailon, A. (*with* Segev, Reuven) Driving a linear constant system by a piecewise constant control. **89b:49055**
Barbu, Viorel (*with* Barron, E. N.) Bang-bang controllers for an optimal cooling problem. (Russian and Polish summaries) **89b:49034**
Barron, E. N. *see* **Barbu, Viorel, 89b:49034**
Bemelmans, Josef (*with* Dierkes, Ulrich) On a singular variational integral with linear growth. I. Existence and regularity of minimizers. **89a:49022**
Bressan, Alberto On differential systems with impulsive controls. (Italian summary) **89d:93065**
Carter, Thomas E. Effects of propellant mass loss on fuel-optimal rendezvous near Keplerian orbit. **89m:49032**
Cassandras, Christos G. Optimal transmission and jamming strategies in a communication channel. **89a:94004**
Chan, W. L. (*with* Jin, Xiao Qing) Singular extremal control problem with time delay. **89d:34123**
Chow, S.-N. *see* **Li, Xun Jing, 89a:34088**
Clarke, D. W. *see* **Tsang, T. T. C.**, (Not in MR)
Colonius, F. Optimal periodic control: a scenario for local properness. **89b:49052**
Dierkes, Ulrich *see* **Bemelmans, Josef, 89a:49022**
Dzhorbenadze, A. N. An optimal control problem for systems that can be described by the static and oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89b:49035**
Fuchs, Martin A note on removable singularities for minima of certain vector-valued obstacle problems. **89e:49007**
Gerchev, A. V. Optimization of linear singularly perturbed systems. (Russian. English summary) **89e:49018**
Giaquinta, Mariano The problem of the regularity of minimizers. **89d:49020**
Hashimoto, Takayuki *see* **Ojika, Takeo; et al., 89f:70042**
Izumoto, Yoshiro *see* **Ojika, Takeo; et al., 89f:70042**

Jasinski, Heinrich (*with* Wagner, Peter) Zur Erreichbarkeitsmenge eines linearen dynamischen Systems mit unterschiedlicher Zeitverzögerung in den Phasenkoordinaten. (English and Russian summaries) [On the attainable set of a linear dynamic system with different time lag in the phase coordinates] **89e:49032**
Jin, Xiao Qing *see* **Chan, W. L., 89d:34123**
Kogan, J. Intersections of extremals in linear-quadratic control problems. **89e:49027**
Leros, A. P. *see* **Siouris, G. M., 89h:90279**
Li, Xun Jing (*with* Chow, S.-N.) Maximum principle of optimal control for functional-differential systems. **89a:34088**
Mansimov, K. B. Singular controls in discrete systems with delay. (Russian) **89h:93037**
Mazumdar, Tapas Minimization, over selected convex sets, of a noncoercive cost functional for hyperbolic systems. (Portuguese summary) **89d:49023**
Nakazumi, Akira *see* **Ojika, Takeo; et al., 89f:70042**
Oberle, Hans Joachim *see* **Opfer, G., 89a:41013**
Ojika, Takeo (*with* Hashimoto, Takayuki; Izumoto, Yoshiro; Nakazumi, Akira) Bang-bang control of rotating rigid body suspended by wire. (Japanese summary) **89f:70042**
Opfer, G. (*with* Oberle, Hans Joachim) The derivation of cubic splines with obstacles by methods of optimization and optimal control. **89a:41013**
Papageorgiou, Nikolaos S. Volterra integral inclusions in Banach spaces. **89k:47106**
Rosenblueth, Javier F. Systems with time delay in the calculus of variations: a variational approach. **89i:49011**
Sadek, Ibrahim S. A constructive method for the distributed control of thin plates. **89j:49017**
Segev, Reuven *see* **Ailon, A., 89b:49055**
Serëgin, G. A. On the differentiability of local extremals of variational problems of the mechanics of rigidly viscoplastic media. (Russian) **89b:49032**
Shander, V. N. Conditions for the optimality of a quasi-open strategy. (Russian. English summary) **89e:93230**
Siouris, G. M. (*with* Leros, A. P.) Minimum-time intercept guidance for tactical missiles. **89h:90279**
Tahraoui, R. Quelques remarques sur le contrôle des valeurs propres. [Some remarks on the control of eigenvalues] **89h:49004**
Tsang, T. T. C. (*with* Clarke, D. W.) Generalised predictive control with input constraints. (Not in MR)
Wagner, Peter *see* **Jasinski, Heinrich, 89e:49032**
Yaksubaev, K. D. Necessity and sufficiency of the third integral for the completion of a game in a class of positional strategies. (Russian) **89a:90185**

49B40 Minimax problems

Cuer, M. (*with* Zolésio, J.-P.) Control of singular problem via differentiation of a min-max. **89g:49035**
Gurin, L. G. The maximum principle in a minimax problem of optimal control. (Russian) **89m:49040**
Konstantinov, G. N. Sufficient conditions for optimality with the Krotov vector function. II. (Russian. English summary) **89g:49036**
— Sufficient conditions for optimality of a minimax control problem of an ensemble of trajectories. **89m:49041**
Kryazhimskiĭ, A. V. Optimization of the ensured result for the dynamical systems. **89d:49025**
Lu, Ping (*with* Vinh, N. X.) Minimax optimal control for atmospheric fly-through trajectories. (Not in MR)
Medhin, Negash G. (*with* Sambandham, M.) Mixed min-max optimization problem with restrictions. **89d:49026**
— A mixed min-max control problem governed by integral equations. **89m:49042**
— A mixed min-max control problem with state restrictions. I. **89m:49043**
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Zolésio, J.-P. *see* **Cuer, M., 89g:49035**

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Albul, A. V. A method for solving minimax control problems. (Russian) **89h:49011**
Bardaro, Carlo (*with* Ceppitelli, Rita) Some further generalizations of Knaster-Kuratowski-Mazurkiewicz theorem and minimax inequalities. **89e:90219**
Ceppitelli, Rita *see* **Bardaro, Carlo, 89e:90219**
Grimble, M. J. Minimax design of optimal stochastic multivariable systems. **89m:49045**
Ipatov, V. P. (*with* Kornievskiĭ, V. I.; Platonov, V. D.) Minimum-power jamming of discrete periodic signals. (Not in MR)
Kalinin, A. I. Optimization of quasilinear control systems. (Russian) **89i:49016**
Komiya, Hidetoshi Elementary proof for Sion's minimax theorem. **89f:49017**
Kornievskiĭ, V. I. *see* **Ipatov, V. P.; et al., (Not in MR)**
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Porosiński, Zdzisław (*with* Szajowski, Krzysztof; Trybuła, Stanisław) Minimax control of a second order linear system. **89b:93121**
Pytlak, Radosław Strong variation algorithm for minimax control. (*see* **89c:00031**)
Seiranyan, A. P. Multiple eigenvalues in optimization problems. **89g:49059**
Szajowski, Krzysztof *see* **Porosiński, Zdzisław; et al., 89b:93121**
Trybuła, Stanisław Minimax control with disturbances having different parameters. (Russian and Polish summaries) **89b:93123**
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Zalmai, G. J. Optimality criteria and duality for a class of minmax programming problems with generalized invexity conditions. **89b:90201**

49B50 Sensitivity of optimal solutions in the presence of perturbations

Colonius, F. (*with* Kunisch, K.) Output least squares stability in elliptic systems. **89k:49019**
Feng, De Xing *see* **Zhang, Bing Yu, 89j:49020**
Gerchev, A. V. Optimization of linear singularly perturbed systems. (Russian. English summary) **89e:49018**
Korotkiĭ, A. I. Coefficient stability of the solutions of hyperbolic systems and the well-posedness of optimal control problems. (Russian) **89e:49019**
Kunisch, K. *see* **Colonius, F., 89k:49019**
Lee, Allan Yeow-Nam Neighboring extremals of dynamic optimization problems with path equality constraints. **89h:49021**
Malanowski, K. ★ Stability of solutions to convex problems of optimization. **89b:49045**
Penot, Jean-Paul Erratum: "Differentiability of relations and differential stability of perturbed optimization problems" [SIAM J. Control Optim. 22 (1984), no. 4, 529–551; MR 85i:49041]. **89d:49027**
Quijada, Oscar Suboptimization and differential inclusions. **89f:49028**
Zhang, Bing Yu (*with* Feng, De Xing) Optimal control of a system governed by a parabolic equation under domain perturbation. (Chinese. English summary) **89j:49020**

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Badr, R. I. (*with* Hassan, M. F.; Bernussou, J.; Bilal, A. Y.) Time-domain robustness and performance optimisation of linear quadratic control problems. **89j:93043**
Barnett, Stephen *see* **Mori, Takehiro, 89e:93176**
Baxter, John Robert (*with* Dal Maso, Gianni; Mosco, U.) Stopping times and Γ-convergence. **89b:35061**
Bernussou, J. *see* **Badr, R. I.; et al., 89j:93043**
Bilal, A. Y. *see* **Badr, R. I.; et al., 89j:93043**
Bryson, Arthur E., Jr. *see* **Lee, Allan Yeow-Nam, 89k:49013**
Canalis-Durand, Mireille (*with* Yalo, Paulin) Robustesse des systèmes linéaires bouclés aux perturbations non-linéaires. (English summary) [Robustness of linear feedback systems with nonlinear perturbations] **89i:93037**
Craven, B. D. On sensitivity analysis for multicriteria optimization. **89g:90210**
Dal Maso, Gianni *see* **Baxter, John Robert; et al., 89b:35061**
Gfrerer, H. Hölder continuity of solutions of perturbed optimization problems under Mangasarian-Fromovitz constraint qualification. **89a:90141**
Hassan, M. F. *see* **Badr, R. I.; et al., 89j:93043**
Ho, Yu-Chi (*with* Li, Shu) Extensions of infinitesimal perturbation analysis. **89b:93116**
Lee, Allan Yeow-Nam (*with* Bryson, Arthur E., Jr.) Neighbouring extremals of dynamic optimization problems with parameter variations. **89k:49013**
Li, Shu *see* **Ho, Yu-Chi, 89b:93116**
Lions, J.-L. Exact controllability, stabilization and perturbations for distributed systems. **89e:93019**
Liskovets, O. A. Regularization of optimal control problems on solutions of stationary variational inequalities. (Russian. English summary) **89c:49009**
Meleshko, V. I. (*with* Sekt, S. S.) Regularized estimates in problems with singular variance matrices. (Not in MR)
Mori, Takehiro (*with* Barnett, Stephen) On stability tests for some classes of dynamical systems with perturbed coefficients. **89e:93176**
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Tanino, Tetsuzo Stability and sensitivity analysis in convex vector optimization. **89f:90120**
Tarn, Tzyh Jong (*with* Zavgren, John R., Jr.; Zeng, Xiaoming) Stabilization of infinite-dimensional systems with periodic feedback gains and sampled output. **89d:93087**
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Zheng, Da Zhong (*with* Wang, Shan Shan) The parameter stability regions for linear quadratic optimal regulators. (Chinese. English summary) **89b:93092**
Zlobec, S. Input optimization. III. Optimal realizations of multiobjective models. **89j:90248**

49B60 Optimal stochastic control [see also 93Exx]

Albertini, Francesca (*with* Runggaldier, Wolfgang J.) Logarithmic transformations for discrete-time, finite-horizon stochastic control problems. **89m:49044**
Boukas, K. (*with* Haurie, A.) Optimality conditions for continuous time systems with controlled jump Markov disturbances: application to an FMS planning problem. **89f:49029**
Dokuchaev, N. G. Transversality conditions for the stochastic maximum principle. (Russian) **89h:49022**
Grimble, M. J. Minimax design of optimal stochastic multivariable systems. **89m:49045**
Han, Song Ho Constructions of feedback control based on stochastic maximum principle. (Korean. English summary) (Not in MR)
Haurie, A. *see* **Boukas, K., 89f:49029**
Komornik, V. On the control of strongly nonlinear systems. I. **89d:49028**
Mezerdi, Brahim Necessary conditions for optimality for a diffusion with a nonsmooth drift. **89j:49021**
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Baras, J. S. (*with* Elliott, Robert J.; Kohlmann, Michael) The conditional adjoint process. **89k:93222**
Cavazos-Cadena, Rolando Necessary and sufficient conditions for a bounded solution to the optimality equation in average reward Markov decision chains. **89g:90229**
Elliott, Robert J. *see* **Baras, J. S.; et al., 89k:93222**
Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**
Kohlmann, Michael *see* **Baras, J. S.; et al., 89k:93222**
Kolev, Nikolaĭ V. An optimal control problem with implicit breakdowns and relation with distributions of order K. **89g:90116**
Pham Tran Nhu Optimal control of discrete time stochastic systems with quadratic costs. **89g:93062**
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Shchukina, G. P. A problem of stochastic control. (Russian) **89k:93230**

Tsyganov, V. V. A characteristic of and optimality of adaptive mechanisms. **89m:93051**

49B99 None of the above, but in this section

Arutyunov, A. V. First-order necessary conditions in a problem of optimal control with phase constraints. (Russian. English and Georgian summaries) **89j:49022**

Chentsov, A. G. *see* **Tarasova, S. I., 89i:49020**

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Chrastina, Jan Recent results on formal calculus of variations and formal theory of differential equations. **89e:58038**

Fujii, Nobuo *see* **Goto, Yoshito; et al., 89i:93064**

Goto, Yoshito (*with* Fujii, Nobuo; Muramatsu, Yasuyuki) Second order necessary optimality conditions for domain optimization problem with a Neumann problem. **89i:93064**

Muramatsu, Yasuyuki *see* **Goto, Yoshito; et al., 89i:93064**

Ocone, Daniel A guide to the stochastic calculus of variations. **89h:60093**

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming [see also 90C39]

49C05 Free problems and problems involving ordinary differential equations

Bokuchava, N. V. (*with* Mamasakhlisov, G. V.) Mathematical models of the optimal control of dynamical systems. (Russian. English and Georgian summaries) (Not in MR)

Ishii, Hitoshi Representation of solutions of Hamilton-Jacobi equations. **89f:49030**

Mamasakhlisov, G. V. *see* **Bokuchava, N. V.**, (Not in MR)

Orrell, D. (*with* Zeidan, V.) Another Jacobi sufficiency criterion for optimal control with smooth constraints. **89h:49023**

Vinter, R. B. New results on the relationship between dynamic programming and the maximum principle. **89a:49026**

Zeidan, V. *see* **Orrell, D., 89h:49023**

Items with secondary classifications in 49C05

Abeßer, Harald Hinreichende Optimalitätskriterien bei Steueraufgaben vom Mayertyp auf der Grundlage der Theorie der zweiten Variation. II. Eigenwertkriterium und Feldtheorie. [Sufficient optimality criteria in control problems of Mayer type based on the theory of the second variation. II. Eigenvalue criterion and field theory] **89g:49026**

Butkovskiĭ, A. G. Dynamic systems with control, and an optical-mechanical analogy. **89m:70027**

Corriga, G. (*with* Salimbeni, D.; Sanna, S.; Usai, G.) An optimal control problem in forest management. **89e:92043**

Dubovitskiĭ, A. Ya. (*with* Dubovitskiĭ, V. A.) Conditions for the pointwise nontriviality of the maximum principle in a regular problem of optimal control. (Russian. English and Georgian summaries) **89i:49014**

Dubovitskiĭ, V. A. *see* **Dubovitskiĭ, A. Ya., 89i:49014**

Ekeland, Ivar Some variational problems arising from mathematical economics. **89i:49001**

Heinricher, Arthur C. (*with* Mizel, Victor J.) A new example of the Lavrentiev phenomenon. **89i:49002**

Kabanov, N. I. Geometric theory of Carathéodory transforms in a singular variational problem for an ordinary integral. (Russian) (*see* **89a:53001**)

Kogan, J. Intersections of extremals in linear-quadratic control problems. **89e:49027**

Korobov, V. I. (*with* Sklyar, G. M.) Exact solution of an n-dimensional time-optimality problem. **89g:93044**

Loewen, Philip D. (*with* Vinter, R. B.) Free time optimal control problems with unilateral state constraints. **89f:49023**

Michel, A. N. *see* **Vittal, Vijay**, (Not in MR)

Mizel, Victor J. *see* **Heinricher, Arthur C., 89i:49002**

Salimbeni, D. *see* **Corriga, G.; et al., 89e:92043**

Sanna, S. *see* **Corriga, G.; et al., 89e:92043**

Sklyar, G. M. *see* **Korobov, V. I., 89g:93044**

Speyer, Jason L. The linear-quadratic control problem. **89b:49051**

Tynyanskiĭ, N. T. Perturbation methods for dynamic extremal problems. (Russian) **89e:49026**

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Vittal, Vijay (*with* Michel, A. N.) A variational principle for nonconservative power systems. (Not in MR)

Wiesel, William E. Optimal payload lofting with tethers. (Not in MR)

Zeidan, V. (*with* Zezza, P.) Necessary conditions for optimal control problems: conjugate points. **89h:49015**

Zezza, P. *see* **Zeidan, V., 89h:49015**

49C10 Free problems and problems involving partial differential equations

Barbu, Viorel Approximation of the Hamilton-Jacobi equations via Lie-Trotter product formula. **89m:49046**

Items with secondary classifications in 49C10

Bordley, Robert F. When present value equals the change in the Hamiltonian. (Not in MR)

El Karoui, Nicole (*with* Jeanblanc-Picqué, Monique) Contrôle de processus de Markov. [Control of Markov processes] **89m:93089**

Hélein, Frédéric Minima de la fonctionnelle énergie libre des cristaux liquides. (English summary) [Minima of the free energy functional of liquid crystals] **89g:58049**

Jeanblanc-Picqué, Monique *see* **El Karoui, Nicole, 89m:93089**

Kastrup, H. A. Canonical formalisms—including Hamilton-Jacobi theories—for classical fields. **89e:58037**

Olver, Peter J. (*with* Sivaloganathan, J.) The structure of null Lagrangians. **89g:58051**

Pickenhain, S. Zum Vergleich verschiedener Dualitätsbegriffe aus der Sicht der Steuerungstheorie. (English and Russian summaries) [On the comparison of different duality concepts from the viewpoint of control theory] **89j:49010**

Sivaloganathan, J. *see* **Olver, Peter J., 89g:58051**

49C15 Problems in abstract spaces or involving functional relations other than differential equations

Aniculăesei, G. (*with* Popa, Cătălin) Hamilton-Jacobi equations and synthesis of optimal bilinear controls in Hilbert spaces. (Italian summary) **89b:49046**

Popa, Cătălin *see* **Aniculăesei, G., 89b:49046**

Items with secondary classifications in 49C15

Zidăroiu, Corneliu Differential stability for random decision systems with complete connections. **89h:90253**

49C20 Dynamic programming method

Barles, G. (*with* Perthame, Benoît) Exit time problems in optimal control and vanishing viscosity method. (French summary) **89i:49021**

Cannarsa, Piermarco (*with* Da Prato, G.; Zolésio, J.-P.) Dynamical shape control of the heat equation. **89m:49047**

Capuzzo-Dolcetta, I. (*with* Menaldi, José-Luis) On the deterministic optimal stopping time problem in the ergodic case. **89e:49020**

— Hamilton-Jacobi equations with constraints. **89c:49019**

— (*with* Menaldi, José-Luis) Asymptotic behavior of the first order obstacle problem. **89j:49023**

Crandall, Michael G. (*with* Lions, Pierre-Louis) Solutions de viscosité pour les équations de Hamilton-Jacobi en dimension infinie intervenant dans le contrôle optimal de problèmes d'évolution. (English summary) [Viscosity solutions of Hamilton-Jacobi equations in infinite dimension occurring in the optimal control of evolution problems] **89a:49027**

Da Prato, G. *see* **Cannarsa, Piermarco; et al., 89m:49047**

Elliott, Robert J. ★ Viscosity solutions and optimal control. **89a:49028**

Esogbue, A. O. (*with* Warsi, N. A.) A high level dynamic programming algorithm for processing nonserial looped systems. **89k:49020**

Garroni, Maria Giovanna (*with* Menaldi, José-Luis) On the asymptotic behaviour of solutions of integro-differential inequalities. **89m:49048**

Hernández, Diego Bricio The Hamilton-Jacobi-Bellman equation and some applications. (Spanish) **89a:49029**

Iftode, Vasile Asymptotic properties of the solutions of some nonlinear evolution equations. (Romanian. English summary) **89i:49022**

Ivanilov, Yu. P. The principal Hamiltonian function and optimality conditions. **89j:49024**

Komarov, V. A. A dynamic programming equation for a time-optimality problem with phase constraints. **89g:49037**

Leizarowitz, Arie Optimal trajectories of infinite-horizon deterministic control systems. **89m:49049**

Lenhart, Suzanne M. Viscosity solutions associated with switching control problems for piecewise-deterministic processes. **89a:49030**

Lions, Pierre-Louis (*with* Souganidis, P. E.) Viscosity solutions of second-order equations, stochastic control and stochastic differential games. **89e:49021**

— *see also* **Crandall, Michael G., 89a:49027**

Luo, Yuan Quan On the continuous differentiability of solutions of the Bellman equation in optimal control. (Chinese) **89b:49047**

Marino, Riccardo Hamiltonian techniques in control of robot arms and power systems. (*see* **89b:93010**)

Marszałek, Wiesław (*with* Sadecki, Jan) Dynamic programming for 2-D discrete linear systems. **89k:49021**

Menaldi, José-Luis (*with* Rofman, Edmundo) An algorithm to compute the viscosity solution of the Hamilton-Jacobi-Bellman equation. **89h:49024**

— *see also* **Capuzzo-Dolcetta, I., 89e:49020; 89j:49023** *and* **Garroni, Maria Giovanna, 89m:49048**

Panchenkov, A. N. Hamilton-Jacobi equations in ill-posed extremal problems of gas dynamics. (Russian) **89c:49020**

Pantoja, J. F. A. De O. Differential dynamic programming and Newton's method. **89e:49022**

Perthame, Benoît *see* **Barles, G., 89i:49021**

Rofman, Edmundo *see* **Menaldi, José-Luis, 89h:49024**

Sadecki, Jan *see* **Marszałek, Wiesław, 89k:49021**

Soner, H. M. On the Hamilton-Jacobi-Bellman equations in Banach spaces. **89g:49038**

Souganidis, P. E. *see* **Lions, Pierre-Louis, 89e:49021**

Staicu, V. Minimal time function and viscosity solutions. **89m:49050**

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— Thickness optimization problem. **89k:49005**
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Baras, J. S. *see* **James, M. R., 89m:93082**
Barbu, Viorel (*with* Barron, E. N.; Jensen, Robert) The necessary conditions for optimal control in Hilbert spaces. **89h:49018**
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— The dynamic programming equations for stochastic games with discrete actions. **89g:93089**
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Beneš, V. E. Using Hopf-Cole, gauge, and Girsanov transformations to reduce stochastic control problems to Gaussian integrations. **89c:93081**
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— Errata: "The probabilistic structure of controlled diffusion processes". **89g:93108b**
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Souli, M. Shape Newton method in naval hydrodynamic. (*see* **89b:93006**)

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49D29 Multiplier methods

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49D30 Other methods, not based on necessary conditions (penalty function, etc.)

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Tynyanskii, N. T. Perturbation methods for dynamic extremal problems. (Russian) **89e:49026**
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49D39 Semi-infinite programming

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Li, Xun Jing (*with* Chow, S.-N.) Maximum principle of optimal control for functional-differential systems. **89a:34088**
Lin, Yi^3 Periodic linked time systems. **89e:93003**
Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Comportement asymptotique d'un corps élastique dont une surface présente de petites zones de collage. (English summary) [Asymptotic behavior of an elastic body with a surface having small sticking regions] **89j:73099**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041**
Nitka-Styczeń, Krystyna Difference approximation of optimal periodic control problems. **89d:49031**
Ortega, Romeo A direct adaptive controller for linear periodic plants. (Not in MR)
Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, 89j:73099**
Poolla, K. R. *see* **Khargonekar, Pramod P.; et al., 89i:93048**
Rink, R. E. *see* **Zaheer-uddin, M.; et al.,** (Not in MR)
Sernik, Enrique (*with* Arapostathis, Aristotle) Remarks on the periodic orbits of the matrix Riccati equation. **89g:34055**
Shayakhmetova, A. Periodic modes in a system of relay control of the mean temperature of a body. (Russian) **89d:80020**
Świerkosz, M. *see* **Kaczorek, T., 89m:93055**
Tannenbaum, Allen *see* **Khargonekar, Pramod P.; et al., 89i:93048**
Tarn, Tzyh Jong (*with* Zavgren, John R., Jr.; Zeng, Xiaoming) Stabilization of infinite-dimensional systems with periodic feedback gains and sampled output. **89d:93087**
— (*with* Zeng, Xiaoming; Zavgren, John R., Jr.) Feedback stabilization of linear dynamic systems with multirate sampled output. **89h:93039**
Urbano, Ana *see* **Hernández, Vicente García, 89j:93023**
Yakubovich, V. A. A frequency theorem for periodic systems and the theory of analytic construction of controllers. (Russian) **89f:93033**
— Dichotomy and absolute stability of nonlinear systems with periodically nonstationary linear part. **89j:93087**
Zaheer-uddin, M. (*with* Gourishankar, V. G.; Rink, R. E.) Dynamic suboptimal control of a heat pump/heat storage system. (Not in MR)
Zavgren, John R., Jr. *see* **Tarn, Tzyh Jong; et al., 89d:93087** *and* **89h:93039**
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al., 89d:93087** *and* **89h:93039**

49D99 None of the above, but in this section

Styczeń, Krystyn Algebraic approximation of optimal cyclic control problems. **89b:49054**

49Exx Controllability and geometry of control problems

49E05 General dependence on controls

Čelikovský, Sergej On the continuous dependence of trajectories of bilinear systems on controls and its applications. **89j:49035**
— On the Lipschitzean dependence of trajectories of multi-input time dependent bilinear systems on controls. (Russian summary) **89h:49033**
Sussmann, H. J. A weak regularity theorem for real analytic optimal control problems. **89h:49034**

Items with secondary classifications in 49E05

Casas Rentería, Eduardo (*with* Fernández, Luis A.) Optimal control of quasilinear elliptic equations. (*see* **89j:00028**)
Fernández, Luis A. *see* **Casas Rentería, Eduardo,** (**89j:00028**)

49E10 Orientor fields (contingency equations)

Chikin, M. G. Systems with phase constraints. (Russian. English summary) **89d:49040**
Frankowska, H. (*with* Kaškosz, B.) A maximum principle for differential inclusion problems with state constraints. **89j:49036**
Kang, Dok Gil Optimal control problem of mixed parameter system expressed by the differential inclusion. (Korean. English summary) (Not in MR)
Kaškosz, B. *see* **Frankowska, H., 89j:49036**
Lovtskiĭ, K. È. On the problem of the modeling of motion for controllable differential inclusions. (Russian) **89m:49064**

Items with secondary classifications in 49E10

Al'brekht, È. G. (*with* Samoĭlova, T. I.) Extremal aiming in game-theoretic guidance problems when the domains of control depend on the phase coordinates. (Russian) **89k:90195**
Amrakhov, Sh. G. On necessary conditions for optimality on an infinite time interval. (Russian) **89b:49022**
Aubin, Jean-Pierre ★ Нелинейный анализ и его экономические приложения. (Russian) [Nonlinear analysis and its applications to economics] **89k:90001**
Barbu, Viorel A product formula approach to nonlinear optimal control problems. **89f:93023**
Borisovich, Yu. G. (*with* Gel'man, B. D.; Myshkis, A. D.; Obukhovskiĭ, V. V.) ★ Введение в теорию многозначных отображений. (Russian) [Introduction to the theory of multivalued mappings] **89f:49014**
Bressan, Alberto (*with* Cellina, Arrigo; Colombo, Giovanni) Upper semicontinuous differential inclusions without convexity. **89m:34023**
Cellina, Arrigo *see* **Bressan, Alberto; et al., 89m:34023**
Clarke, Frank H. (*with* Loewen, Philip D.) State constraints in optimal control: a case study in proximal normal analysis. **89a:49019**
Colombo, Giovanni *see* **Bressan, Alberto; et al., 89m:34023**
Dąbrowska, Róża Generic properties of functional-integraf [integral] equations with compact convex valued solutions. **89g:34099**
Dontchev, Asen L. (*with* Vel'ov, V. M.) Singular perturbations in linear differential inclusions. I. Convergence of the trajectories. (Bulgarian. English and Russian summaries) **89h:93026a**
— (*with* Vel'ov, V. M.) Singular perturbations in linear differential inclusions. II. Continuity of the solution set. (Bulgarian. English and Russian summaries) **89h:93026b**
— (*with* Vel'ov, V. M.) Singular perturbations in linear differential inclusions. III. Continuity of the marginal function. (Bulgarian. English and Russian summaries) **89h:93026c**
Emel'yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Investigation of controllability by methods of the theory of approximation groups and systems on a foliation. **89i:93009**
Filippova, T. F. *see* **Kurzhanskiĭ, A. B., 89g:49051**
Frankowska, H. Contingent cones to reachable sets of control systems. **89m:49034**
Gel'man, B. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Goodall, D. P. (*with* Ryan, E. P.) Feedback controlled differential inclusions and stabilization of uncertain dynamical systems. **89m:93066**
(**Gurin, L. G.**) *see* **Aubin, Jean-Pierre, 89k:90001**
Gurman, V. I. Extensions of differential systems and their applications to the investigation of natural-economic models. (Russian) **89c:90041**
Imanov, M. G. A linear time-optimality problem with a phase constraint. (Russian. English and Azerbaijani summaries) **89b:93065**
Jovanov, Djurica The existence of an optimal control for a linear problem with a variable control domain. (Serbo-Croatian. English summary) **89m:49003**

Karulina, N. I. A sufficient condition for optimality for differential inclusions. (Russian) **89m:49036**
Komarov, V. A. On an equation of attainable sets of differential inclusions. (Russian) **89e:49034**
Konstantinov, G. N. Sufficient conditions for optimality of a minimax control problem of an ensemble of trajectories. **89m:49041**
Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89i:93009**
(Kukushkin, N. S.) *see* **Aubin, Jean-Pierre, 89k:90001**
Kurzhanskiĭ, A. B. Set-valued calculus in problems of adaptive control. **89m:93049**
— (*with* Filippova, T. F.) Dynamics of the set of viable trajectories to a differential inclusion: the evolution equation. (Russian summary) **89g:49051**
Loewen, Philip D. (*with* Vinter, R. B.) Free time optimal control problems with unilateral state constraints. **89f:49023**
— *see also* **Clarke, Frank H., 89a:49019**
Makhmudov, È. N. Duality in the problems of optimal control for systems described by convex differential inclusions with delay. **89b:49020**
— A polyhedral optimization problem for polyhedral discrete and differential inclusions, and duality. **89i:90076**
Myshkis, A. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89i:93009**
Nikol′skiĭ, M. S. A method for the approximation of the feasibility set for a differential inclusion. (Russian) **89m:49069**
Obukhovskiĭ, V. V. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Papageorgiou, Nikolaos S. Existence and convergence results for differential inclusions in Banach spaces. **89h:34060**
— A relaxation theorem for differential inclusions in Banach spaces. **89b:34034**
Ryan, E. P. *see* **Goodall, D. P., 89m:93066**
Samoĭlova, T. I. *see* **Al′brekht, È. G., 89k:90195**
Vályi, István Ellipsoidal approximations in problems of control. **89m:93050**
Vel′ov, V. M. *see* **Dontchev, Asen L., 89h:93026a; 89h:93026b** *and* **89h:93026c**
Vinter, R. B. *see* **Loewen, Philip D., 89f:49023**
Zelikin, M. I. Group symmetry in degenerate extremal problems. **89g:49057**

49E15 Attainable sets, controllability

Ailon, A. (*with* Segev, Reuven) Driving a linear constant system by a piecewise constant control. **89b:49055**
Aĭsagaliev, S. A. Controllability of nonlinear control systems. (Russian. Kazakh summary) **89j:49041**
Belyavskiĭ, S. S. The dimension of the attainability set of a system of differential equations with switching. (Russian) **89b:49056**
Burton, G. R. (*with* Ryan, E. P.) On reachable sets and extremal rearrangements of control functions. **89m:49065**
Butkovskiĭ, A. G. A phase-space (state-space) portrait of a control dynamic system. **89c:49028**
Cârjă, O. On constraint controllability of linear systems in Banach spaces. **89b:49057**
Chernous′ko, F. L. ★ Оценивание фазового состояния динамических систем. (Russian) [Estimation of the phase state of dynamical systems] **89k:49028**
— Estimation of the phase state of controllable dynamical systems. (Russian) (*see* **89j:34002**)
— (*with* Yangin, A. A.) Approximation of attainable sets using intersections and unions of ellipsoids. **89g:49048**
Dontchev, Asen L. (*with* Slavov, J. I.) Lipschitz properties of the attainable set of singularly perturbed linear systems. **89m:49066**
Filippova, T. F. *see* **Kurzhanskiĭ, A. B., 89g:49051**
Fisher, Michael Ernest (*with* Gayek, Jonathan E.) Estimating reachable sets for two-dimensional linear discrete systems. **89b:49058**
Gayek, Jonathan E. (*with* Vincent, Thomas L.) An existence theorem for boundary trajectories. **89g:49049**
— *see also* **Fisher, Michael Ernest, 89b:49058**
Gershkovich, V. Ya. Estimates for the admissibility sets for fields of cones and polysystems. (Russian) **89m:49067**
Gubin, S. V. (*with* Kovalev, A. M.) Gauge function of the domain of attainability of a linear control system and its application in estimation problems. (Russian. English summary) **89a:49037**
— Extremal properties of corner points of the boundary of a domain of attainability. (Russian) **89g:49050**
— (*with* Kovalev, A. M.) On constructing the attainability sets of linear nonautonomous systems with resource constraints. **89b:49059**
Hamano, Fumio Necessary and sufficient conditions for subspace reachability and controllability of discrete-time, time-invariant linear dynamical systems. **89j:49037**
Han, Jia-Yuan (*with* Wyman, Bostwick F.) Reachability of linear systems with subspace open constraints. (*see* **89f:00025**)
Haraux, A. Contrôlabilité exacte d'une membrane rectangulaire au moyen d'une fonctionnelle analytique localisée. (English summary) [Exact controllability of a rectangular membrane by means of a localized analytic functional] **89e:49030**
(Hirschorn, Ronald M.) *see* **Kumpera, A., 89c:49029**
Horváth, M. Vibrating strings with free ends. **89e:49031**
Jasinski, Heinrich (*with* Wagner, Peter) Zur Erreichbarkeitsmenge eines linearen dynamischen Systems mit unterschiedlicher Zeitverzögerung in den Phasenkoordinaten. (English and Russian summaries) [On the attainable set of a linear dynamic system with different time lag in the phase coordinates] **89e:49032**
Kaczorek, T. Straight line reachability of two-dimensional linear systems. **89b:49060**
Kalinin, V. N. (*with* Shikin, E. V.) The construction of ellipsoids of extreme volume. **89e:49033**
Kawski, Matthias A necessary condition for local controllability. **89a:49038**
— An angular open mapping theorem. **89m:49068**
Khaĭlov, E. N. Analytic parametrization of the set of controllability in a linear control problem. (Russian) **89j:49038**
Khan, I. S. Structure of the limit sets of the trajectories of control systems. (Russian. English summary) **89a:49039**
Khrustalev, M. M. An accurate description of feasibility sets and conditions for the global optimality of dynamical systems. I. Estimates for and an accurate description of feasibility sets and controllability sets. **89m:49072**
Komarov, V. A. On an equation of attainable sets of differential inclusions. (Russian) **89e:49034**
Kovalev, A. M. *see* **Gubin, S. V., 89a:49037** *and* **89b:49059**
Krabs, W. On time-minimal distributed control of vibrations. **89j:49039**
Kumpera, A. Remarks on a paper: "Global controllability of nonlinear systems" [SIAM J. Control Optimization **14** (1976), no. 4, 700–711; MR **58** #15374] by R. M. Hirschorn. **89c:49029**
Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) Dynamics of the set of viable trajectories to a differential inclusion: the evolution equation. (Russian summary) **89g:49051**
Lions, J.-L. Contrôlabilité exacte et perturbations singulières. II. La méthode de dualité. [Exact controllability and singular perturbations. II. The duality method] **89b:49061**
— Exact controllability and singular perturbations. **89d:49042**
Liu, Ming Yang *see* **Zhao, Yi, 89m:49070**
Lotov, A. V. Approximation and stability of generalized attainability sets. (Russian) **89j:49040**
Minyuk, S. A. On the theory of the controllability and feasibility of linear stationary differential-difference systems. (Russian) **89i:49025**
Mukherjee, Rathindra Nath^2 Minimum time control for a minimum cost control problem in Banach space. **89d:49043**
Naito, K. Approximate controllability of control systems under some inequality conditions. **89f:49033**
Nikol′skiĭ, M. S. Approximation of the feasibility set for a differential inclusion. (Russian) **89i:49026**
— A method for the approximation of the feasibility set for a differential inclusion. (Russian) **89m:49069**
Özveren, Cüneyt M. (*with* Verghese, George C.; Willsky, Alan S.) Asymptotic orders of reachability in perturbed linear systems. **89g:49052**
Panasyuk, A. I. A necessary and sufficient condition for the convexity of attainability sets of differential inclusions. (Russian) **89g:49053**
Petrenko, I. V. (*with* Semenov, V. N.) Geometric investigation of the feasibility sets of controllable dynamical systems. (Russian) (*see* **89a:93001**)
Pokornyĭ, Yu. V. Quasisynthesis in a guidance problem. (Russian) (*see* **89j:34002**)
Roxin, Emilio O. Reachable sets, limit sets and holding sets in control systems. **89a:49040**
Ryan, E. P. *see* **Burton, G. R., 89m:49065**
Sallet, G. Strong controllability for series cascade of polynomial control systems. **89g:49054**
Segev, Reuven *see* **Ailon, A., 89b:49055**
Semenov, V. N. *see* **Petrenko, I. V., (89a:93001)**
Shikin, E. V. *see* **Kalinin, V. N., 89e:49033**
Slavov, J. I. *see* **Dontchev, Asen L., 89m:49066**
Stefani, Gianna On the local controllability of a scalar-input control system. **89c:49030**
— A sufficient condition for extremality. **89h:49035**
Susoĭkin, V. I. On the control of a quasilinear system in a singular case. (Russian) (*see* **89c:00023**)
Verghese, George C. *see* **Özveren, Cüneyt M.; et al., 89g:49052**
Vincent, Thomas L. *see* **Gayek, Jonathan E., 89g:49049**
Wagner, Peter *see* **Jasinski, Heinrich, 89e:49032**
Weck, N. Null controllability and exact controllability for parabolic equations. **89a:49041**
Werner, K.-D. Boundary value controllability and observability problems for the wave and heat equation. **89e:49035**
Willsky, Alan S. *see* **Özveren, Cüneyt M.; et al., 89g:49052**
Wyman, Bostwick F. *see* **Han, Jia-Yuan, (89f:00025)**
Yangin, A. A. *see* **Chernous′ko, F. L., 89g:49048**
Zhao, Yi (*with* Liu, Ming Yang) The attainability problem and optimal control for a class of bilinear systems. (Chinese. English summary) **89m:49070**
Zuazua, Enrike Contrôlabilité exacte de systèmes d'évolution non linéaires. (English summary) [Exact controllability of nonlinear evolution systems] **89d:49044**

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Adda, Ph. Contrôlabilité des systèmes bilinéaires généraux et homogènes dans $\mathbf{R}^2$. (English summary) [Controllability of general and homogeneous bilinear systems in $\mathbf{R}^2$] **89f:93005**
Aĭsagaliev, S. A. Controllability and absolute stability of controllable systems. (Russian) **89e:93153**
Al′brekht, È. G. Optimal strategies for approach and evasion. (Russian) **89a:90180**
Aleksandrov, Vladimir Mikhaĭlovich Solution of optimal control problems on the basis of the quasi-optimal control method. (Russian) **89e:93081**
Avdonin, S. A. (*with* Gorshkova, O. Ya.) On the controllability of parabolic systems with delay in the highest derivative. (Russian) **89i:93007**
Bacciotti, Andrea (*with* Kalouptsidis, N.; Tsinias, J.) Topological dynamics of control systems. **89k:93006**
Balachandran, Krishnan Controllability of a class of perturbed nonlinear systems. **89e:93015**
Belikov, Sergeĭ Arkad′evich Observability of linear and bilinear systems in a Hilbert space. **89e:93025**
Benzaid, Z. Global null controllability of perturbed linear systems with constrained controls. **89k:49029**
Bisiacco, Mauro *see* **Šebek, M.; et al., 89e:93021**
Boltyanskiĭ, A. V. Normal local controllability of objects that can be described by a system of second-order differential equations with one control parameter. (Russian) **89e:93016**
Bunce, John W. Inertia and controllability in infinite dimensions. **89b:93020**
Burgmeier, P. *see* **Plokhov, A. G., 89k:93019**
Burovoĭ, I. A. *see* **Emel′yanov, S. V.; et al., 89j:93005**
Čelikovský, Sergej On the Lipschitzean dependence of trajectories of multi-input time dependent bilinear systems on controls. (Russian summary) **89h:49033**
Cellina, Arrigo On the set of solutions to Lipschitzian differential inclusions. **89d:34023**
Chatterjee, J. *see* **Mukherjee, Rathindra Nath^2, 89e:93128**

Chernous'ko, F. L. Approximation of the attainability sets of controllable systems. (Russian) **89b:49021**

— Construction of constrained control in oscillatory systems. (Russian) **89m:70068**

Chukwu, E. N. The time optimal control theory of nonlinear systems of neutral type. **89f:34115**

— The time-optimal control of nonlinear delay equations. **89e:34132**

— Global null controllability of nonlinear delay equations with controls in a compact set. **89a:93010**

— *see also* **Underwood, Robert G., 89b:34175**

Emel′yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems. Two-dimensional systems. (Russian) **89c:93009**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Two-dimensional bilinear systems: classification of singularities and criteria for controllability. (Russian) **89f:93006**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems and systems on a foliation. **89g:93003**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Investigation of controllability by methods of the theory of approximation groups and systems on a foliation. **89i:93009**

— (*with* Burovoĭ, I. A.; Kirilychev, V. N.) Controllability of linear dynamical systems. **89j:93005**

Filippov, V. V. On a theorem of Kneser. (Russian) **89d:34017**

Fornasini, Ettore *see* **Šebek, M.; et al., 89e:93021**

Frankowska, H. Théorèmes d'application ouverte et de fonction inverse. (English summary) [Some open mapping and inverse mapping theorems] **89d:58014**

— Contingent cones to reachable sets of control systems. **89m:49034**

Gorshkova, O. Ya. *see* **Avdonin, S. A., 89i:93007**

Grisvard, Pierre Contrôlabilité exacte avec conditions mêlées. (English summary) [Exact controllability with mixed boundary conditions] **89a:49005**

Hermes, Henry (*with* Kawski, Matthias) Local controllability of a single input, affine system. **89h:93009**

Ho, Lop Fat Exact controllability of second order hyperbolic systems with control in the Dirichlet boundary conditions. **89b:93021**

Iskra, K. K. *see* **Minyuk, S. A., 89e:93020**

Kalouptsidis, N. *see* **Bacciotti, Andrea; et al., 89k:93006**

Kawski, Matthias Control variations with an increasing number of switchings. **89b:49042**

— *see also* **Hermes, Henry, 89h:93009**

Khrustalev, M. M. An accurate description of feasibility sets and conditions for the global optimality of dynamic systems. II. Conditions for global optimality. **89m:49073**

Khusainov, D. Ya. (*with* Kiselevskiĭ, A. G.) Optimization of an estimate for a transient process in linear systems. (Russian) **89d:34014**

Kirilychev, V. N. *see* **Emel′yanov, S. V.; et al., 89j:93005**

Kiselevskiĭ, A. G. *see* **Khusainov, D. Ya., 89d:34014**

Korobov, V. I. (*with* Sklyar, G. M.) Exact solution of an n-dimensional time-optimality problem. **89g:93044**

Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89c:93009; 89f:93006; 89g:93003** *and* **89i:93009**

Krastanov, M. I. A necessary condition for local controllability. (Not in MR)

Lagnese, J. (*with* Lions, J.-L.) ★ Modelling analysis and control of thin plates. **89k:73001**

Lions, J.-L. Some remarks on uniqueness properties. **89k:93018**

— Exact controllability, stabilization and perturbations for distributed systems. **89e:93019**

— *see also* **Lagnese, J., 89k:73001**

Littman, Walter (*with* Markus, Lawrence) Exact boundary controllability of a hybrid system of elasticity. **89j:93007**

Marchenko, Vladimir Matveevich (*with* V″lkova, Yu. S.) Game-theoretic controllability problems for linear discrete systems. (Russian. English summary) **89c:90125**

Markus, Lawrence *see* **Littman, Walter, 89j:93007**

Minyuk, S. A. Complete null-controllability and observability of linear systems with retarded argument. (Russian) **89k:34137**

— (*with* Iskra, K. K.) Controllability and observability of first-order linear partial differential systems. (Russian. English summary) **89e:93020**

Mukherjee, Rathindra Nath^2 (*with* Chatterjee, J.) Verification of the global controllability for a certain class of time optimal control problems. **89e:93128**

Niane, Mary Teuw Contrôlabilité exacte de l'équation des plaques vibrantes dans un polygone. (English summary) [Exact controllability of the vibrating plates equation in a polygon] **89i:35021**

Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89c:93009; 89f:93006; 89g:93003** *and* **89i:93009**

Oshchepkov, S. P. (*with* Sholokhovich, F. A.) A sufficient condition for epsilon-controllability. (Russian) **89h:93010**

Plokhov, A. G. (*with* Burgmeier, P.) An approach of approximating the ε-null-controllability set of nonlinear nonautonomous systems. (Russian summary) **89k:93019**

Quinn, Dennis W. Determining the input for a dynamic system which is not completely controllable. **89a:93011**

Schilling, Klaus An approach to control theory by fixed point algorithms. **89d:49013**

Šebek, M. (*with* Bisiacco, Mauro; Fornasini, Ettore) Controllability and reconstructibility conditions for 2-D systems. **89e:93021**

Seidman, Thomas I. How violent are fast controls? **89a:93012**

Sholokhovich, F. A. *see* **Oshchepkov, S. P., 89h:93010**

Sklyar, G. M. *see* **Korobov, V. I., 89g:93044**

Sontag, Eduardo D. Controllability is harder to decide than accessibility. **89j:93008**

Sussmann, H. J. A weak regularity theorem for real analytic optimal control problems. **89b:49034**

Triggiani, R. Exact controllability for wave equation with Neumann boundary control. **89g:93006**

— Exact boundary controllability on $L_2(\Omega) \times H^{-1}(\Omega)$ of the wave equation with Dirichlet boundary control acting on a portion of the boundary $\partial\Omega$, and related problems. **89i:93011**

Tsinias, J. A Lyapunov description of stability in control systems. **89k:93176**

— *see also* **Bacciotti, Andrea; et al., 89k:93006**

Underwood, Robert G. (*with* Chukwu, E. N.) Null controllability of nonlinear neutral differential equations. **89b:34175**

Varshanidze, L. Kh. On a problem on the numerical solution of a time-optimality problem for linear systems with variable structure. (Russian. English summary) (Not in MR)

V″lkova, Yu. S. *see* **Marchenko, Vladimir Matveevich, 89c:90125**

Vũ Ngọc Phát Controllability of nonlinear discrete systems without differentiability assumption. **89b:93024**

Zabello, L. E. On the investigation of approximate zero-controllability in linear nonstationary systems with delay. (Russian) **89d:34131**

Zhao, Yi *see* **Zhou, Hong Xing, 89j:93001**

Zhou, Hong Xing (*with* Zhao, Yi) Controllability theory for nonlinear systems. (Chinese. English summary) **89j:93001**

49E20 Interrelations between stability problems and optimization problems

Chuang, Yao T'ang A fundamental multivariable robustness theorem for robust eigenvalue assignment. **89g:49055**

Dovbysh, I. G. On the problem of the stabilization of motion up to practical stability. (Russian) **89d:49045**

Lasiecka, Irena Exponential local stability of first order strictly hyperbolic systems with nonlinear perturbations on the boundary. **89d:49046**

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49E25 Effect of perturbations on controllability

Benzaid, Z. (*with* Lutz, D. A.) Constrained controllability of perturbed discrete-time systems. **89i:49027**

— Global null controllability of perturbed linear systems with constrained controls. **89k:49029**

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49E30 Relations between controllability and optimal solutions

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49Fxx Manifolds [see also 58Exx]

49F05 Exterior differential forms, invariant integrals (Cartan theory) [See mainly 58A15]

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49F10 Minimal surfaces [See mainly 53A10, also 58E12]

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— Two-dimensional geometric variational problems. **89g:58045**
— On the existence of embedded minimal surfaces of higher genus with free boundaries in Riemannian manifolds. **89b:58051**
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49F15 Morse theory in Hilbert and other spaces [see also 57R27, 58Exx]

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Bougeard, Mireille L. Morse theory for some lower-C^2 functions in finite dimension. **89k:58054**
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49F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [see also 28A75, 32C30, 58A25, 58C35]

Almgren, F. Basic techniques of geometric measure theory. (French summary) (*see* **89g:58052**)

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49F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

Abrahamson, Jeff Curves length-minimizing modulo v in $\mathbf{R}^n$. **89h:49036**

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49F25 Surface area; Weierstrass and Burkill integrals, subadditive set functions

Brandi, Primo (*with* Salvadori, Anna) The Weierstrass integral of the calculus of variations along BV curves, in comparison with the integrals of Lebesgue and Serrin. (Italian) **89m:49080**

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49Gxx Variational methods for eigenvalues [see also 47A70]

49G05 Variational approach to eigenvalues

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49G10 Rayleigh-Ritz methods

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Brădeanu, Petre The Ritz variational method for the heat transfer in a circular cylinder. **89h:80008**
Filippov, V. M. On a variational principle for the equation $-\Delta u + \lambda u = g(x)$. (Russian) **89a:35063**
Knyazev, Andreĭ Vladimirovich Methods for the derivation of some estimates in a symmetric eigenvalue problem. (Russian) **89d:65040**
Pierre, Christophe Comments on Rayleigh's quotient and perturbation theory for the eigenvalue problem. **89m:70038**

49G15 Weinstein and Aronszajn methods, intermediate problems

Beattie, Christopher (*with* Fox, David W.) Schur complements and the Weinstein-Aronszajn theory for modified matrix eigenvalue problems. **89i:49029**
Fox, David W. *see* **Beattie, Christopher, 89i:49029**
Maddocks, J. H. Errata: "Restricted quadratic forms and their application to bifurcation and stability in constrained variational principles" [SIAM J. Math. Anal. **16** (1985), no. 1, 47–68; MR 86f:49111]. **89i:49030**

Items with secondary classifications in 49G15

Baimov, Sh. K. (*with* Mustafaev, K. F.) Localization of the eigenvalues of some boundary value problems. (Russian) **89b:35034**
Brown, R. D. Convergence criteria for Aronszajn's method and for the Bazley-Fox method. **89d:47031**
Mustafaev, K. F. *see* **Baimov, Sh. K., 89b:35034**
Suleimanov, N. S. Approximate methods for the calculation of the eigenvalues and eigenfunctions of boundary value problems of Steklov type. (Russian) **89b:35029**

49G20 Linear operators in Hilbert spaces

Items with secondary classifications in 49G20

Amer, Mustafa Amin (*with* Eissa, H. H.) On the solution of eigenvalue problems in the Hilbert space. (Arabic summary) **89g:65073**
Cao, Zhi Hao Solving large sparse linear and quadratic generalized eigenvalue problems. **89a:65059**
Eissa, H. H. *see* **Amer, Mustafa Amin, 89g:65073**
Kurochkin, S. V. Some estimates for the eigenvalues of a perturbed operator. (Russian) **89c:47018**
Rünger, Gudula Variational methods and scalar nonlinearities. **89k:58074**
Winkler, Andrew M. Dirichlet and Neumann spectrum. **89k:58292**
Xue, Wei Min Multifield variational problems in linear elasticity. **89f:73022**

49G99 None of the above, but in this section

Seiranyan, A. P. Multiple eigenvalues in optimization problems. **89g:49059**

49H05 Variational principles of physics [see also 70–XX, 81–XX]

Balian, Roger (*with* Vénéroni, Marcel) Static and dynamic variational principles for expectation values of observables. **89m:49082**
Ball, J. M. Loss of the constraint in convex variational problems. **89j:49041**
Caviglia, Giacomo Composite variational principles and the determination of conservation laws. **89c:49033**
Vénéroni, Marcel *see* **Balian, Roger, 89m:49082**

Items with secondary classifications in 49H05

Betounes, David E. Utiyama's Lagrangian and external gauge fields. **89d:58032**
Carini, A. (*with* De Donato, O.) Quadratic extremum principles for finite strain rigid-viscoplastic dynamics of continua. **89f:73031**
Cendra, Hernan (*with* Marsden, Jerrold E.) Lin constraints, Clebsch potentials and variational principles. **89b:58060**
Dai, Tian Min (*with* Fu, Min Fu; Lin, Zhong Xiang; Yang, De Pin) Variational methods for the problems of nonconservative force fields in the micropolar elastodynamics. **89c:73008**
Debnath, Lokenath A variational principle for nonlinear water waves. **89d:76007**
De Donato, O. *see* **Carini, A., 89f:73031**
Deng, Lu Cheng *see* **Xiao, Jin Sheng; et al., 89m:80006**
Ferraris, Marco (*with* Francaviglia, Mauro) Applications of the Poincaré-Cartan form in higher order field theories. **89d:58033**
Finn, Robert (*with* Shinbrot, Marvin) The capillary contact angle. II. The inclined plane. **89k:76022**
Francaviglia, Mauro *see* **Ferraris, Marco, 89d:58033**
Fu, Min Fu *see* **Dai, Tian Min; et al., 89c:73008**
Ieşan, D. Initially stressed thermoelastic dielectrics. **89j:73094**
Kohn, Robert V. (*with* Lipton, Robert) Optimal bounds for the effective energy of a mixture of isotropic, incompressible, elastic materials. **89f:73012**
Kopczyński, Wojciech A fluid of multidimensional objects. **89e:83043**
Krupková, Olga A note on the Helmholtz conditions. **89e:58050**
Lin, Zhong Xiang *see* **Dai, Tian Min; et al., 89c:73008**
Lipton, Robert *see* **Kohn, Robert V., 89f:73012**
Marsden, Jerrold E. *see* **Cendra, Hernan, 89b:58060**
Mazure, Marie-Laurence La soustraction parallèle d'opérateurs interprétée comme déconvolution de formes quadratiques convexes. (English summary) [Parallel subtraction of operators interpreted as a deconvolution of convex quadratic forms] **89m:90126**
(Milinazzo, F.) *see* **Finn, Robert, 89k:76022**
Modica, Luciano Gradient theory of phase transitions with boundary contact energy. (French summary) **89c:76108**
Moreau, J.-J. Free boundaries and nonsmooth solutions to some field equations: variationa characterization through the transport method. **89f:49019**
Pustyl′nikov, L. D. A ground state in a model of Frenkel′ and Kontorova. **89i:82097**
Schächter, François An informational extension of the second principle. **89j:94011**
Shinbrot, Marvin *see* **Finn, Robert, 89k:76022**
Torres del Castillo, G. F. The time-dependent variational method in quantum mechanics. (Spanish. English summary) **89f:81044**
Turkington, Bruce Vortex rings with swirl: axisymmetric solutions of the Euler equations with nonzero helicity. **89k:76028**
Vacca, Jacopa Harmonic balance and classical variational methods. (Italian. English summary) **89i:70025**
Warstat, Volker A variational principle for general polymer systems. (German and Russian summaries) **89i:82061**
Xiao, Jin Sheng (*with* Deng, Lu Cheng; Yu, Chang Ming) The variational principle and generalized variational principle for the heat conduction problem. (Chinese. English summary) **89m:80006**
Xing, Jing Tang A note about Oden's constitutive variational principle. **89a:73004**
Yang, De Pin *see* **Dai, Tian Min; et al., 89c:73008**
Yu, Chang Ming *see* **Xiao, Jin Sheng; et al., 89m:80006**

51–XX Geometry {For algebraic geometry, see 14–XX.}

Items with secondary classifications in 51–XX

Toriwaki, Junichiro (*with* Yokoi, Shigeki) Voronoĭ and related neighbors on digitized two-dimensional space with applications to texture analysis. (*see* **89k:68151**)
Yokoi, Shigeki *see* **Toriwaki, Junichiro, (89k:68151)**

51–01 Elementary exposition; textbooks

Aleksandrov, A. D. ★ Основания геометрии. (Russian) [Foundations of geometry] **89h:51001**
(Bkouche, Rudolphe) *see* **Lehmann, Daniel, 89f:51002**
Burkhardt, Rainer ★ Elemente der euklidischen und polareuklidischen Geometrie. (German) [Elements of Euclidean and polar Euclidean geometry] **89m:51001**
Chee, P. S. Projective geometry. I. (Malay. English summary) **89a:51001**
Greinke, Werner Mathematische Kartographie. [Mathematical cartography] **89f:51001**
Lehmann, Daniel ★ Initiation à la géométrie. (French) [Introduction to geometry] **89f:51002**
(Levy, Silvio) *see* **Samuel, Pierre, 89f:51003**
Moszyńska, M. (*with* Święcicka, Joanna) ★ Geometria z algebrą liniową. (Polish) [Geometry with linear algebra] **89e:51001**
Prasolov, V. V. ★ Задачи по планиметрии. Часть I. (Russian) [Problems in plane geometry. Part I] **89j:51001**
Samuel, Pierre ★ Projective geometry. **89f:51003**
Święcicka, Joanna *see* **Moszyńska, M., 89e:51001**
Wittmann, Erich Christian ★ Elementargeometrie und Wirklichkeit. (German) [Elementary geometry and reality] **89m:51002**

Items with secondary classifications in 51–01

Dudley, Underwood ★ A budget of trisections. **89a:51045**
Georgiev, G. Kh. (*with* Petrova, Rusanka G.) Some applications of the isometric transformations in a space. (Bulgarian. English summary) **89f:51063**
Onishchik, A. L. (*with* Sulanke, Rolf) ★ Algebra und Geometrie. 2. (German) [Algebra and geometry. 2] **89c:00001**
Petrova, Rusanka G. *see* **Georgiev, G. Kh., 89f:51063**
Stoka, Marius ★ Corso di geometria. (Italian) [Course in geometry] **89b:15001**
Sulanke, Rolf *see* **Onishchik, A. L., 89c:00001**
Talbot, R. F. Generalizations of Pythagoras' theorem in n dimensions. **89h:51033**

51–02 Advanced exposition (research surveys, monographs, etc.)

Böhm, Johannes (*with* Börner, W.; Hertel, E.; Krötenheerdt, O.; Mögling, Werner; Stammler, L.) ★ Geometrie. I. (German) [Geometry. I] **89b:51001**
Börner, W. *see* **Böhm, Johannes; et al., 89b:51001**
Hertel, E. *see* **Böhm, Johannes; et al., 89b:51001**
Krötenheerdt, O. *see* **Böhm, Johannes; et al., 89b:51001**
Mögling, Werner *see* **Böhm, Johannes; et al., 89b:51001**
Stammler, L. *see* **Böhm, Johannes; et al., 89b:51001**
(Wussing, Hans) *see* **Böhm, Johannes; et al., 89b:51001**

51–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 51–03

(Beltrami, E.) *see* **Scanlan, Michael J., 89h:01037**
(Benedetti, Giovanni Battista) *see* **Field, J. V., 89e:01014**
Bogolyubov, Alekseĭ Nikolaevich Geometry and mechanics in the works of J.-V. Poncelet. (Russian) **89d:01036**
Bolyai, János ★ Appendix. **89m:01052**
(De Cristofaro, Giacinto) *see* **Gatto, Romano, 89a:01019**

(Desargues, Girard) *see* **Field, J. V., 89g:01022**
(Descartes, René) *see* **Dorofeeva, A. V., 89c:01056**
Dorofeeva, A. V. Descartes and his "Geometry". (Russian) **89c:01056**
Dovlatova, L. I. *see* **Kulieva, G. Z., 89m:01005**
Duda, Roman Newton and the mathematical concept of space. (*see* **89m:01042**)
Field, J. V. Giovanni Battista Benedetti on the mathematics of linear perspective. **89e:01014**
— Linear perspective and the projective geometry of Girard Desargues. (Italian summary) **89g:01022**
Folta, Jaroslav Die Entwicklung der Geometrie im 19. Jahrhundert und die Entstehung geometrischer Schulen. [The development of geometry in the 19th century and the beginnings of schools of geometry] **89b:01020**
Gatto, Romano Giacinto De Cristofaro: a Neapolitan Cartesian mathematician in the late seventeenth and early eighteenth centuries. (Italian) **89a:01019**
(Goetz, Dorothea) *see* **Kepler, Johannes, 89e:01052**
(Grassmann, Hermann) *see* **Schlote, Karl-Heinz, 89d:01044**
Gray, Jeremy The discovery of non-Euclidean geometry. (*see* **89b:01002**)
(Kárteszi, Ferenc) *see* **Bolyai, János, 89m:01052**
Kepler, Johannes ★ Vom sechseckigen Schnee. (German) [On hexagonal snowflakes] **89e:01052**
Kulieva, G. Z. (*with* Dovlatova, L. I.) The use of historical-mathematical material in the teaching of a course in analytic geometry. (Russian) **89m:01005**
van Maanen, Jan A. The refutation of Longomontanus' quadrature by John Pell. **89a:01022**
Manara, Carlo Felice Giuseppe Veronese and the problem of the geometric continuum. (Italian. English summary) **89i:01040**
Mo, De An investigation of problems about Euclid's *Elements*. I. (Chinese) **89j:01010a**
— An investigation of problems about Euclid's *Elements*. II. (Chinese) **89j:01010b**
(Newton, Isaac) *see* **Duda, Roman**, (**89m:01042**)
(Pell, John) *see* **van Maanen, Jan A., 89a:01022**
(Poncelet, Jean-Victor) *see* **Bogolyubov, Alekseĭ Nikolaevich, 89d:01036**
Rosenfeld, B. A. ★ A history of non-Euclidean geometry. **89k:01001**
Scanlan, Michael J. Beltrami's model and the independence of the parallel postulate. **89h:01037**
Schlote, Karl-Heinz Hermann Grassmanns Beitrag zur Algebrentheorie. [Hermann Grassmann's contribution to the theory of algebras] **89d:01044**
Scriba, Christoph J. Welche Kreismonde sind elementar quadrierbar? Die 2400jährige Geschichte eines Problems bis zur endgültigen Lösung in den Jahren 1933/1947. [Which lunes are elementarily squarable? The 2400-year history of a problem until its final solution in the years 1933–1947] **89f:01008**
(Shenitzer, Abe) *see* **Rosenfeld, B. A., 89k:01001**
(Szénássy, Barna) *see* **Bolyai, János, 89m:01052**

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Biography:
De Cristofaro, Giacinto *see* **Gatto, Romano, 89a:01019**
Descartes, René *see* **Dorofeeva, A. V., 89c:01056**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Farinato, R. (*with* Loreto, L.) Geometric crystallography and computing in geometry. **89i:51001**
Loreto, L. *see* **Farinato, R., 89i:51001**
Schroeder, W. J. (*with* Shephard, M. S.) Geometry-based fully automatic mesh generation and the Delaunay triangulation. **89m:51003**
Shephard, M. S. *see* **Schroeder, W. J., 89m:51003**

Items with secondary classifications in 51–04

Alt, Helmut (*with* Mehlhorn, Kurt; Wagener, Hubert; Welzl, Emo) Congruence, similarity, and symmetries of geometric objects. **89d:68083**
Bode, Dieter ★ Zur Bestimmung eines Kreises durch drei Punkte. (German) [On the definition of a circle through three points] **89j:65040**
Chou, Shang-Ching (*with* Schelter, William F.; Yang, Jin Gen) Characteristic sets and Gröbner bases in geometry theorem proving. **89d:03009**
— A method for the mechanical derivation of formulas in elementary geometry. **89b:03021**
Gao, Xiao Shan Trigonometric identities and mechanical theorem proving in elementary geometry. (Chinese. English summary) **89g:68061**
Johnson, Roy Michael The solution of point/line/plane problems in three dimensions by means of one simple vector function. **89h:51040**
Kajikawa, Yasushi New models of synergetics topology and their reciprocal space-filling transformations. (*see* **89g:82013**)
Kapur, Deepak (*with* Mundy, J. L.) Wu's method and its application to perspective viewing. **89m:68120**
Kateřiňák, Josef Mini-programs for hidden lines on surface. (Russian and Czech summaries) **89d:51038**
Lazard, Daniel Quantifier elimination: optimal solution for two classical examples. **89k:12017**
Livingstone, D. Computing for the arithmetic of geometries. **89i:20002**
McCallum, Scott An improved projection operation for cylindrical algebraic decomposition of three-dimensional space. **89m:12001**
Mehlhorn, Kurt *see* **Alt, Helmut; et al., 89d:68083**
Mundy, J. L. *see* **Kapur, Deepak, 89m:68120**
O'Rourke, Joseph Uniqueness of orthogonal connect-the-dots. (*see* **89k:68151**)
Schelter, William F. *see* **Chou, Shang-Ching; et al., 89d:03009**
Toussaint, Godfried T. Shortest path solves translation separability of polygons. **89d:68086**
Wagener, Hubert *see* **Alt, Helmut; et al., 89d:68083**
Welzl, Emo *see* **Alt, Helmut; et al., 89d:68083**
Yang, Jin Gen *see* **Chou, Shang-Ching; et al., 89d:03009**

51–06 Proceedings, conferences, etc.

(Val'kov, K. I.) *see* **Geometric models and algorithms, 89a:51002**

Items listed otherwise than by author

Geometric models and algorithms ★ Геометрические модели и алгоритмы. (Russian) [Geometric models and algorithms] **89a:51002**
Selected problems in descriptive geometry ★ Wybrane zagadnienia geometrii wykreślnej. (Polish) [Selected problems in descriptive geometry] **89h:51002**

Items with secondary classifications in 51–06

(Fleck, George) *see* **Shaping space, 89b:52016**
(Senechal, Marjorie) *see* **Shaping space, 89b:52016**
(Stephanidis, N. K.) *see* **Proceedings: Congress of geometry, 89b:53003**

Items listed otherwise than by author

Conference:
Shaping space ★ Shaping space. **89b:52016**
Congress:
Geometry ★ Proceedings of the congress of geometry. (German) **89b:53003**
Northampton, Mass. ★ Shaping space. **89b:52016**
Proceedings:
Congress of geometry ★ Proceedings of the congress of geometry. (German) **89b:53003**
Shaping space ★ Shaping space. **89b:52016**
Thessaloniki ★ Proceedings of the congress of geometry. (German) **89b:53003**

51Axx Linear incidence geometry

Items with secondary classifications in 51Axx

Chee, P. S. Projective geometry. I. (Malay. English summary) **89a:51001**

51A05 General theory and projective geometries

André, Johannes Endliche nichtkommutative Geometrie. [Finite noncommutative geometry] **89m:51004**
Arnold, Hans-Joachim Affine Relative. [Affine relatives] **89f:51004**
Banning, Jan Proportionen: eine Grundlage der affinen Geometrie. [Proportions: a foundation of affine geometry] **89f:51005**
Bian, Song Yuan *see* **Li, Tao Sheng, 89m:51005**
Biondi, Paola A characterization of the Grassmann space representing the 2-dimensional subspaces of a projective space. (Italian summary) **89f:51006**
— On finite Grassmann spaces. **89f:51007**
Chiorean, Ioana *see* **Groze, Victoria, 89b:51004**
Cvetković, Dragoljub Some projective transformations of the plane. (Serbo-Croatian. Russian summary) **89b:51002**
— Some transformations of projective space. (Serbo-Croatian. French summary) **89b:51003**
Groze, Victoria (*with* Chiorean, Ioana) A generalization of projective space. **89b:51004**
Hartl, Johann Büschel linearer Abbildungen. (English summary) [Pencils of linear mappings] **89f:51008**
Herzer, Armin Über Scharen linearer Unterräume der Rang-r-Mannigfaltigkeiten. [On families of linear subspaces of the rank r manifolds] **89a:51003**
Li, Tao Sheng (*with* Bian, Song Yuan) On duality principles. (Chinese. English summary) **89m:51005**
Limaye, Nirmala B. A generalisation of Fano's postulate. (Not in MR)
Pickert, Günter Zum projektiven Beweis des Schmetterlingssatzes. [On the projective proof of the butterfly theorem] **89f:51009**
Schmidt, Stefan E. Projektive Räume mit geordneter Punktmenge. [Projective spaces with ordered point set] **89a:51004**
Schröder, Eberhard M. A characterization of ovoidal quadrics by plane sections. **89b:51005**
Sörensen, Kay Ein Beweis von H. Karzel und I. Pieper. (English summary) [A proof of H. Karzel and I. Pieper] **89k:51001**

Items with secondary classifications in 51A05

Bisztriczky, Tibor Affinely embeddable convex bodies. **89e:52003**
Hillebrandt, Gert Product geometries. **89m:51011**
Schenke, Michael Analoga des Fundamentalsatzes der projektiven Geometrie in der Gruppentheorie. II. [Analogues of the fundamental theorem of projective geometry in group theory. II] **89e:20055**

51A10 Homomorphism, automorphism and dualities

Brandstetter, J. (*with* Hartmann, P.) Über Homomorphismen projektiver Räume. [On homomorphisms of projective spaces] **89m:51006**
Dolgarëv, A. I. LM-spaces. (Russian) **89a:51005**
Hartmann, P. *see* **Brandstetter, J., 89m:51006**
Kist, Günter Inzidenzräume mit Süß'scher Kollineationsgruppe. (English summary) [Incidence spaces with Süss collineation group] **89g:51001**
Mészáros, Ferenc (*with* Molnár, Emil) One-generator transformation groups in the projective plane. (Hungarian. English summary) **89i:51002**
Molnár, Emil *see* **Mészáros, Ferenc, 89i:51002**
Stary, Maria Zur Kennzeichnung der Kollineationen zwischen Quadriken. (English summary) [On the characterization of the collineations between quadrics] **89g:51002**
Vdovin, V. V. Homomorphisms of freely generated projective planes. **89m:51007**

Items with secondary classifications in 51A10

Dalla Volta, Francesca Regular sets for the affine and projective groups over the field of two elements. **89k:20008**
Hartl, Johann Büschel linearer Abbildungen. (English summary) [Pencils of linear mappings] **89f:51008**

Korchmaros, Gabor (*with* Saeli, Donato) Commutative loops of exponent two and involutorial 3-nets with identity. **89j:20075**
Orbán, B. Transformations of order 3 between two Pappian projective planes. **89a:51007**
Petrov, E. E. Harmonics on a finite projective space. **89k:20042**
Saeli, Donato *see* **Korchmaros, Gabor, 89j:20075**

51A15 Structures with parallelism

André, Johannes Über Kennzeichnungen endlicher Gruppenräume. [On characterizations of finite group spaces] **89f:51010b**
— Über schiefaffine Räume der Ordnung 2. [On skew-affine spaces of order 2] **89f:51010c**
Herzer, Armin Construction of some planar translation spaces. **89h:51003**
Pfalzgraf, J. A note on simplices as geometric configurations. **89f:51010a**
— On group spaces defined by semidirect products of groups. **89f:51010d**
Sörensen, Kay Über pseudoaffine Räume. (English summary) [On pseudoaffine spaces] **89f:51011**

Items with secondary classifications in 51A15

Pianta, Silvia Noncommutative affine kinematic spaces and their automorphism group. **89d:51024**
Sörensen, Kay Ein Beweis von H. Karzel und I. Pieper. (English summary) [A proof of H. Karzel and I. Pieper] **89k:51001**

51A20 Configuration theorems

van de Craats, J. Hexagons and conic sections. (Dutch) **89f:51012**
Ding, Ren *see* **Murphy, Grattan, 89k:51002**
Dorwart, Harold L. Point and circle configurations; a new theorem. **89h:51004**
Lyakh, I. V. Configurations of rank eight in 3-nets. (Russian) **89i:51003**
Martinov, N. Ĭ. On a conjecture of Grünbaum. (Russian) **89d:51001**
Murphy, Grattan (*with* Ding, Ren) Grünbaum's gap conjecture. **89k:51002**
Saam, Armin Schliessungssätze als Eigenschaften von Projektivitäten. (English summary) [Closure theorems as properties of projectivities] **89i:51004**

51A25 Algebraization [see also 12Kxx, 20N10]

Sorace, Orazio Dual planes and the Pappus property. (Italian) **89c:51001**
Zizioli, Elena An independence theorem on the conditions for incidence loops. **89h:51005**

Items with secondary classifications in 51A25

Arnold, Hans-Joachim Affine Relative. [Affine relatives] **89f:51004**
Chiorean, Ioana *see* **Groze, Victoria, 89b:51004**
Çiftüci, Suleyman (*with* Kaya, Rustem; Ferrar, Joseph C.) On 4-transitivity in the Moufang plane. **89f:51015**
Ferrar, Joseph C. *see* **Çiftüci, Suleyman; et al., 89f:51015**
Groze, Victoria (*with* Chiorean, Ioana) A generalization of projective space. **89b:51004**
Grundhöfer, Theo Ternary fields of compact projective planes. **89d:51021**
Ihringer, Thomas On seminets, groups and congruence relations. **89b:08002**
Kaya, Rustem *see* **Çiftüci, Suleyman; et al., 89f:51015**
Korchmaros, Gabor (*with* Saeli, Donato) Commutative loops of exponent two and involutorial 3-nets with identity. **89j:20075**
Quaisser, Erhard Zum Stufenaufbau von Translationsebenen in spiegelungsgeometrischer Darstellung. [On the succesive construction of translation planes in reflection-geometric representation] **89k:51007**
Saeli, Donato *see* **Korchmaros, Gabor, 89j:20075**
Ustimenko, V. A. Tits geometries and division algebras. **89f:51030**

51A30 Desarguesian and Pappian geometries

Grochowska, Małgorzata An axiom system for the class of groups of dilatations in Fano-Pappian affine planes. **89a:51006**
Havlicek, Hans Liniengeometrische Modelle affiner 4-Räume. [Line-geometric models of affine 4-spaces] **89f:51013**
Mäurer, Helmut Collineations of projective planes with different numbers of fixed points and fixed lines. **89f:51014**
Orbán, B. Transformations of order 3 between two Pappian projective planes. **89a:51007**
Volenec, Vladimir *UV*-conconical quadruples of points on a conic. (Serbo-Croatian summary) **89h:51006**

Items with secondary classifications in 51A30

Banning, Jan Proportionen: eine Grundlage der affinen Geometrie. [Proportions: a foundation of affine geometry] **89f:51005**
van de Craats, J. Hexagons and conic sections. (Dutch) **89f:51012**
Sorace, Orazio Dual planes and the Pappus property. (Italian) **89c:51001**

51A35 Non-Desarguesian affine and projective planes

Çiftüci, Suleyman (*with* Kaya, Rustem; Ferrar, Joseph C.) On 4-transitivity in the Moufang plane. **89f:51015**
Ferrar, Joseph C. *see* **Çiftüci, Suleyman; et al., 89f:51015**
Kaya, Rustem *see* **Çiftüci, Suleyman; et al., 89f:51015**

Items with secondary classifications in 51A35

Bader, Laura Some new examples of flocks of $Q^+(3, q)$. **89i:51012**
Baker, R. D. (*with* Ebert, G. L.; Weida, R.) Another look at Bruen chains. **89c:51002**
Dempwolff, U. A characterization of the generalized twisted field planes. **89f:51018**
Ebert, G. L. *see* **Baker, R. D.; et al., 89c:51002**
Johnson, Norman Lloyd[1] Tensor product and generalized Ott-Schaeffer planes. **89i:51011**
Joshi, Vinod *see* **Narayana Rao, M. L.; et al., 89j:51003**
Kuppuswamy Rao, K. *see* **Narayana Rao, M. L.; et al., 89j:51003** *and* **89k:51006**
Mäurer, Helmut Collineations of projective planes with different numbers of fixed points and fixed lines. **89f:51014**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with orbit structure 2, 16 and 32. **89j:51003**
— (*with* Kuppuswamy Rao, K.; Subba Rao, G. V.) Translations complements of *C*-planes. III. **89k:51006**
Saam, Armin Schliessungssätze als Eigenschaften von Projektivitäten. (English summary) [Closure theorems as properties of projectivities] **89i:51004**
Subba Rao, G. V. *see* **Narayana Rao, M. L.; et al., 89k:51006**
Weida, R. *see* **Baker, R. D.; et al., 89c:51002**

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Abatangelo, L. Maria Collineation groups of spreads. **89f:51016**
Baker, R. D. (*with* Ebert, G. L.) Construction of two-dimensional flag-transitive planes. **89f:51017**
— (*with* Ebert, G. L.; Weida, R.) Another look at Bruen chains. **89c:51002**
— (*with* Ebert, G. L.) Nests of size $q - 1$ and another family of translation planes. **89k:51003**
Dempwolff, U. A characterization of the generalized twisted field planes. **89f:51018**
Durgaprasad, K. V. *see* **Narayana Rao, M. L.; et al., 89k:51005**
Ebert, G. L. *see* **Baker, R. D.; et al., 89c:51002; 89f:51017** *and* **89k:51003**
Gevaert, H. (*with* Johnson, Norman Lloyd[1]) Flocks of quadratic cones, generalized quadrangles and translation planes. **89m:51008**
— (*with* Johnson, Norman Lloyd[1]; Thas, J. A.) Spreads covered by reguli. **89k:51004**
Hiramine, Yutaka Some translation planes admitting $SL(2, 5) \times SL(2, 5)$. **89j:51002**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Derivable nets defined by central collineations. **89g:51003**
— (*with* Johnson, Norman Lloyd[1]) Baer-elation planes. **89d:51002**
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Narayana Rao, M. L. (*with* Satyanarayana, K.) Collineations in the translation complement fixing an ideal point of a translation plane. **89g:51004**
— (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with orbit structure 2, 16 and 32. **89j:51003**
— (*with* Kuppuswamy Rao, K.; Subba Rao, G. V.) Translation complements of *C*-planes. IV. **89e:51002b**
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— (*with* Kuppuswamy Rao, K.; Durgaprasad, K. V.) Flag transitive planes of dimension four over GF(3). **89k:51005**
— (*with* Kuppuswamy Rao, K.; Subba Rao, G. V.) Translations complements of *C*-planes. III. **89k:51006**
Quaisser, Erhard Zum Stufenaufbau von Translationsebenen in spiegelungsgeometrischer Darstellung. [On the succesive construction of translation planes in reflection-geometric representation] **89k:51007**
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Thas, J. A. *see* **Gevaert, H.; et al., 89k:51004**
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Baker, R. D. (*with* Ebert, G. L.) A new class of translation planes. **89d:51010**
Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]; Menichetti, Giampaolo) The collineation groups of Baer-elation planes. **89i:51008**
Ebert, G. L. Nests, covers, and translation planes. **89f:51048**
— *see also* **Baker, R. D., 89d:51010**
Heimbeck, Günter Translationsebenen der Ordnung 49 mit Scherungen. (English summary) [Translation planes of order 49 with shears] **89h:51013**
— (*with* Wagner, Richard) Eine neue Serie von endlichen Translationsebenen. (English summary) [A new series of finite translation planes] **89m:51013**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) A note on rational covers of spreads. **89a:51020**
— (*with* Johnson, Norman Lloyd[1]) The centre of a finite semifield plane is a geometric invariant. **89f:51041**
— (*with* Johnson, Norman Lloyd[1]) The linearity question for abelian groups on translation planes. **89b:51013**
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Johnson, Norman Lloyd[1] Semifield flocks of quadratic cones. **89g:51009**
— Tensor product and generalized Ott-Schaeffer planes. **89i:51011**
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Knoflíček, František On translation planes and quasifields of order 16. **89a:51021**
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Luisi, Giannangelo A translation plane of order 49. (Italian. English summary) **89a:51022**
Mason, Geoffrey Representation theory and translation planes. **89c:20022**
Mäurer, Helmut Regulär operierende, invariante Mengen semilinearer Abbildungen. (English summary) [Regularly operating, invariant sets of semilinear mappings] **89d:51039**
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Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 25 with small translation complement. **89a:51023**
O'Keefe, Christine M. On t-spreads of $PG((s + 1)(t + 1) - 1, q)$. **89h:51016**

de Resmini, Marialuisa J. On the semifield plane of order 16 with kern GF(2). **89f:51053**
Rosati, Luigi Antonio Unitals in Hughes planes. **89f:51054**
Vincenti, Rita Derived semifield planes of odd order admitting a dihedral group of affine homologies. **89f:51044**
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51A45 Incidence structures imbeddable into projective geometries

Batten, Lynn Margaret Embedding pseudo-complements of quadrics in PG(n,q), $n \geq 3$, $q \geq 2$. **89m:51009**
De Clerck, F. (*with* Mazzocca, F.) The classification of polarities in reducible projective spaces. **89f:51019**
Fiori, Carla Partial geometries and sets of permutations. (Italian. English summary) **89e:51003**
Frank, Rolfdieter Projective embedding of certain linear spaces. **89f:51020**
— Warum ist der euklidische Raum Teil eines projektiven Raumes? [Why is Euclidean space part of a projective space?] **89c:51003**
Hall, J. I. The hyperbolic lines of finite symplectic spaces. **89f:51021**
Kern, Walter On finite locally projective planar spaces. **89f:51022**
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Metsch, Klaus Embedding locally projective planar spaces into projective spaces. **89d:51003**
— An optimal bound for embedding linear spaces into projective planes. **89m:51010**
— An improved bound for the embedding of linear spaces into projective planes. **89f:51023**
Prażmowski, Krzysztof On the structure of the group of isometries of a degenerate hyperbolic plane and a geometry arising from it. (Serbo-Croatian summary) **89f:51024**

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Bénéteau, L. Quasigroups and groups arising from cubic surfaces. **89g:20107**
Biondi, Paola A characterization of the Grassmann space representing the 2-dimensional subspaces of a projective space. (Italian summary) **89f:51006**
— On finite Grassmann spaces. **89f:51007**
Herzer, Armin Über Scharen linearer Unterräume der Rang-r-Mannigfaltigkeiten. [On families of linear subspaces of the rank r manifolds] **89a:51003**
Radziszewski, Krysztof On some inversion-like transformations of degenerate hyperbolic plane. **89f:51080**
Sörensen, Kay Über pseudoaffine Räume. (English summary) [On pseudoaffine spaces] **89f:51011**

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Buekenhout, F. (*with* Delandtsheer, Anne; Doyen, Jean) Finite linear spaces with flag-transitive groups. **89k:20007**
Davison, T. M. K. Bilinear three-cycles on the projective line. **89g:39011**
Delandtsheer, Anne *see* **Buekenhout, F.; et al., 89k:20007**
Doyen, Jean *see* **Buekenhout, F.; et al., 89k:20007**
Thomas, Simon Groups acting on infinite-dimensional projective spaces. II. **89e:20009**

51Bxx Nonlinear incidence geometry

51B05 General theory

Benz, Walter Eine Kennzeichnung des Büschelsatzes in Kettengeometrien. [A characterization of the pencil theorem in chain geometries] **89e:51004**
Herzer, Armin Supplement to: "On rational representations of chain geometries as projective varieties" [Arch. Math. (Basel) **47** (1986), no. 6, 573–576; MR 88e:51006]. **89a:51008**
Pasini, Antonio (*with* Rees, Sarah) A theorem on Tits geometries of type C_n. **89a:51009**
Rees, Sarah Weak buildings of spherical type. **89f:51025**
— *see also* **Pasini, Antonio, 89a:51009**
Shult, Ernest Remarks on geometries of type C_N. **89a:51010**
Stroth, G. A local classification of some finite classical Tits geometries and chamber systems of characteristic $\neq 3$. **89j:51004**

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Dress, Andreas (*with* Schulte, Egon) On a theorem of McMullen about combinatorially regular polytopes. **89f:52012**
Eneva, Gergana Pencils of circles in the inversive non-Miquelian planes $S(q)$. (Bulgarian. English and Russian summaries) **89b:51020**
Scharlau, Rudolf A structure theorem for weak buildings of spherical type. **89b:51012**
Schulte, Egon *see* **Dress, Andreas, 89f:52012**
Shpektorov, S. V. Geometric characterization of the group M_{22}. (Russian) **89m:51012**

51B10 Möbius geometries

Hotje, Herbert Freie Möbiusebenen. [Free Möbius planes] **89c:51004**
Karlov, Emil A. Thoughts on a theorem of Miquel. (Bulgarian. English summary) **89f:51026**
Kroll, Hans-Joachim Zur Klassifikation der Möbius-Räume. [On the classification of Möbius spaces] **89g:51005**
— Examples of ovoidal Möbius planes of Hering class II1. **89b:51006**
Lozanov, Chavdar On the nonequivalency of the theorem of Miquel M_8 with a four-point case of the theorem M_4^2. **89f:51027**
Mencerrey, Yves Miquelian inversive planes which admit an orthogonality both in the sense of Dembowski and Hughes and of Benz. **89h:51007**
Prażmowski, Krzysztof *see* **Zabilski, Jerzy, 89d:51004**
Zabilski, Jerzy (*with* Prażmowski, Krzysztof) On a general form of "the bundle theorem" in Möbius geometry. **89d:51004**

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Keppens, Dirk Möbius planes with neighbor relation. **89a:51014**
Wernicke, Bernd Topologische Möbiusebenen in spiegelungsgeometrischer Darstellung. [Topological Möbius planes in reflection-geometric presentation] **89m:51026**
Zeitler, Herbert Clifford-Parallelen—Was ist das? [Clifford parallels—what is that?] **89d:51032**

51B15 Laguerre geometries

Lester, J. A. The octahedron theorem in Minkowski three-space: a metric vector space proof of Miquel's theorem in the Laguerre plane. **89b:51007**

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Luksch, Christine Die Automorphismengruppe der Polynomgeometrie vom Grad n. [The automorphism group of the polynomial geometry of degree n] **89k:51013**
Steinke, Günter F. Semiclassical topological flat Laguerre planes obtained by pasting along two parallel classes. **89k:51021**

51B20 Minkowski geometries

Artzy, Rafael Net of rationality in a Minkowski plane. **89f:51028**
Huckenbeck, Ulrich Ein verschärfter und verallgemeinerter Satz von Alexandrov. (English summary) [A sharpened and generalized theorem of Aleksandrov] **89a:51011**
Jakóbowski, Jan Uniqueness of an extensibility of an affine plane into a Minkowski plane. **89a:51012**
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Prażmowski, Krzysztof Equidistance relations on Minkowski planes. **89b:51008**

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Baptist, Peter (*with* Schröder, Eberhard M.) Merkwürdige Punkte von Dreiecken in euklidischen und minkowskischen Ebenen. [Strange points of triangles in Euclidean and Minkowskian planes] **89h:51028**
Lester, J. A. The octahedron theorem in Minkowski three-space: a metric vector space proof of Miquel's theorem in the Laguerre plane. **89b:51007**
Prażmowski, Krzysztof On some incidence systems on the universe of lines of ordered Minkowski planes. **89a:51035**
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51B25 Lie geometries

Hanssens, G. A technique in the classification theory of point-line geometries. **89b:51009**
— A characterization of point-line geometries for finite buildings. **89f:51029**
Ronan, M. A. (*with* Tits, J.) Building buildings. **89e:51005**
Tits, J. *see* **Ronan, M. A., 89e:51005**
Ustimenko, V. A. An approach to the construction of Tits geometries. (Ukrainian. Russian summary) **89g:51006**

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Cohen, Arjeh M. (*with* Cooperstein, Bruce N.) The 2-spaces of the standard $E_6(q)$-module. **89c:51013**
Cooperstein, Bruce N. *see* **Cohen, Arjeh M., 89c:51013**
Deza, M. (*with* Laurent, Monique) Bouquets of matroids, d-injection geometries and diagrams. **89d:51006**
Hanssens, G. A characterization of point-line geometries for buildings of spherical type. **89h:51010**
Ivanov, Aleksandr Anatol'evich (*with* Shpektorov, S. V.) Geometries for sporadic groups related to the Petersen graph. I. **89c:20031**
Kantor, W. M. Some locally finite flag-transitive buildings. **89d:20023**
Laurent, Monique *see* **Deza, M., 89d:51006**
Meixner, Thomas Folding down classical Tits chamber systems. **89g:20077**
Pasini, Antonio (*with* Rees, Sarah) A theorem on Tits geometries of type C_n. **89a:51009**
— Geometric and algebraic methods in the classification of geometries belonging to Lie diagrams. **89e:51007**
— Geometries of type C_n and F_4 with flag-transitive automorphism groups. **89a:51029**
Rees, Sarah Weak buildings of spherical type. **89f:51025**
— *see also* **Pasini, Antonio, 89a:51009**
Sarli, John The geometry of root subgroups in Ree groups of type ${}^2F_4$. **89g:20072**
Shpektorov, S. V. Geometric characterization of the groups A_7, $L_2(11)$ and $L_2(25)$. (Russian) **89d:20014**
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Shult, Ernest Remarks on geometries of type C_N. **89a:51010**
Smith, Stephen D. Geometric techniques in representation theory. **89a:20053**
Tits, J. Buildings and group amalgamations. **89i:20001**
Van Maldeghem, H. Valuations on PTRs induced by triangle buildings. **89h:51011**

51B99 None of the above, but in this section

Herzer, Armin Die Kategorie der Kettengeometrien. [The category of chain geometries] **89c:51005**
Ustimenko, V. A. Tits geometries and division algebras. **89f:51030**

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Atsuyama, Kenji The connection between the symmetric space $E_8/S_s(16)$ and projective planes. **89m:53085**
Olanda, D. Seminversive planes. **89b:51021**
Pfalzgraf, J. Eine Beschreibung geometrischer Räume als gefaserte Strukturen. (English summary) [A description of geometric spaces as fibered structures] **89f:51033**

51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Baker, C. A. (*with* Lane, N. D.; Lorimer, J. W.) A construction for topological non-Desarguesian affine Hjelmslev planes. **89a:51013**
Ellers, Erich W. (*with* Frank, Rolfdieter) Products of quasireflections and transvections over local rings. **89h:51008**
Frank, Rolfdieter *see* **Ellers, Erich W., 89h:51008**
Keppens, Dirk On polarities in the k-uniform n-dimensional projective Hjelmslev space $PH(n, \mathrm{GF}(q)[t]/t^k)$, q odd. **89c:51006**
— Möbius planes with neighbor relation. **89a:51014**
— Polarities in n-uniform projective Hjelmslev planes. **89f:51031**
Knüppel, Frieder Projective planes over rings. **89a:51015**
Lane, N. D. *see* **Baker, C. A.; et al., 89a:51013**
Lorimer, J. W. Affine Hjelmslev rings and planes. **89c:51007**
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Mäurer, Helmut (*with* Nolte, Wolfgang) A characterization of Pappian affine Hjelmslev planes. **89f:51032**
Nolte, Wolfgang Minkowskische Hjelmslevgruppen über lokalen Ringen. (English summary) [Minkowskian Hjelmslev groups over local rings] **89b:51010**
— *see also* **Mäurer, Helmut, 89f:51032**
Vasiu, A. Motions of a class of Hjelmslev-Barbilian planes. (Romanian) **89k:51008**
Veldkamp, Ferdinand D. Projective Barbilian spaces. II. **89a:51016**

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Brandstetter, J. (*with* Hartmann, P.) Über Homomorphismen projektiver Räume. [On homomorphisms of projective spaces] **89m:51006**
Grundhöfer, Theo Compact disconnected planes, inverse limits and homomorphisms. **89j:51014**
Hartmann, P. *see* **Brandstetter, J., 89m:51006**
Krivoruchko, G. V. A Euclidean space over a second-order matrix algebra. (Russian) **89b:53026**
Törner, Günter Left and right associated prime ideals in chain rings with d.c.c. for prime ideals. **89a:16021**

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Kroll, Hans-Joachim Höherdimensionale Prismenkonfigurationen in Doppelräumen mit Austauschaxiom. (English summary) [Higher-dimensional prism configurations in double spaces with exchange axiom] **89e:51006**

51D15 Abstract geometries with parallelism

Pfalzgraf, J. Eine Beschreibung geometrischer Räume als gefaserte Strukturen. (English summary) [A description of geometric spaces as fibered structures] **89f:51033**
Volenec, Vladimir Parallelogram spaces, laterally commutative heaps and semiaffine spaces. **89h:51009**

51D20 Combinatorial geometries [see also 05B25]

Berardi, Luigia (*with* Eugeni, Franco) Blocking sets and game theory: origins and problems. (Italian) **89j:51005**
Buekenhout, F. (*with* Buset, Dominique) On the foundations of incidence geometry. **89b:51011**
Buset, Dominique *see* **Buekenhout, F., 89b:51011**
Cheung, Alan (*with* Crapo, Henry) On relative position in extensions of combinatorial geometries. **89k:51009**
Crapo, Henry *see* **Cheung, Alan, 89k:51009**
Deza, M. (*with* Laurent, Monique) Bouquets of matroids, d-injection geometries and diagrams. **89d:51006**
Eugeni, Franco *see* **Berardi, Luigia, 89j:51005**
Hanssens, G. A characterization of point-line geometries for buildings of spherical type. **89h:51010**
Hillebrandt, Gert Product geometries. **89m:51011**
Kung, Joseph P. S. The long-line graph of a combinatorial geometry. I. Excluding $M(K_4)$ and the $(q+2)$-point line as minors. **89f:51034**
Laurent, Monique *see* **Deza, M., 89d:51006**
Pasini, Antonio Geometric and algebraic methods in the classification of geometries belonging to Lie diagrams. **89e:51007**
— On F_4 geometries. (Italian summary) **89k:51010**
Sazhenyuk, F. G. Some inductive constructions in combinatorial geometry. (Russian. English and Georgian summaries) **89c:51008**
— Finite nets on the Euclidean plane. (Russian. English and Georgian summaries) **89i:51005**
Scharlau, Rudolf A structure theorem for weak buildings of spherical type. **89b:51012**
Shpektorov, S. V. Geometric characterization of the group M_{22}. (Russian) **89m:51012**
Van Maldeghem, H. Valuations on PTRs induced by triangle buildings. **89h:51011**

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Biondi, Paola A characterization of the Grassmann space representing the 2-dimensional subspaces of a projective space. (Italian summary) **89f:51006**
— On finite Grassmann spaces. **89f:51007**
Cameron, Peter J. Geometric sets of permutations. **89i:20014**
Dress, Andreas (*with* Scharlau, Rudolf) Gated sets in metric spaces. **89c:54057**
Hanssens, G. A technique in the classification theory of point-line geometries. **89b:51009**
— A characterization of point-line geometries for finite buildings. **89f:51029**
Ronan, M. A. (*with* Tits, J.) Building buildings. **89e:51005**
Scharlau, Rudolf *see* **Dress, Andreas, 89c:54057**
Schroeder, W. J. (*with* Shephard, M. S.) Geometry-based fully automatic mesh generation and the Delaunay triangulation. **89m:51003**
Shephard, M. S. *see* **Schroeder, W. J., 89m:51003**
Tits, J. *see* **Ronan, M. A., 89e:51005**

51D25 Lattices of subspaces [see also 05B35]

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Cheung, Alan (*with* Crapo, Henry) On relative position in extensions of combinatorial geometries. **89k:51009**
Crapo, Henry *see* **Cheung, Alan, 89k:51009**
Remus, Dieter A characterization of all abelian groups whose lattice of precompact group topologies represents a projective geometry. **89c:20083**

51D99 None of the above, but in this section

Menzel, Richard Variations on a theme of Euclid. **89g:51007**

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Menskiĭ, M. B. The notion of relative position and its nonabelian generalization. (Russian) **89f:51085**

51Exx Finite geometry

51E05 General block designs [see also 05B05]

Berardi, Luigia (*with* Beutelspacher, Albrecht) Constructing the biplanes of order four from six points. (Italian summary) **89f:51035**
Beutelspacher, Albrecht *see* **Berardi, Luigia, 89f:51035**
Dillon, J. F. (*with* Wertheimer, M. A.) Graphs, codes, and designs in quadrics. **89h:51012**
Smith, Ken W. Flag algebras of a symmetric design. **89i:51007**
Wertheimer, M. A. *see* **Dillon, J. F., 89h:51012**

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Berardi, Luigia (*with* Beutelspacher, Albrecht) Blocking sets of the known biplanes. (Italian summary) **89k:51014**
— Blocking sets in the large Mathieu designs. I. The case $S(3,6,22)$. **89b:05056**
Beutelspacher, Albrecht *see* **Berardi, Luigia, 89k:51014**
Ćepulić, Vladimir (*with* Essert, Mario) Biplanes $(56,11,2)$ with automorphisms of order 4 fixing some point. **89i:05065**
Essert, Mario *see* **Ćepulić, Vladimir, 89i:05065**
Eugeni, Franco (*with* Mayer, Erika) Blocking sets of index two. **89b:05058**
Kantor, W. M. Classification of 2-transitive symmetric designs. **89e:05030**
Lempel, Abraham *see* **Roth, Ron M., 89k:94068**
Mavron, Vassili C. Symmetric designs and λ-arcs. **89g:05022**
Mayer, Erika *see* **Eugeni, Franco, 89b:05058**
Roth, Ron M. (*with* Lempel, Abraham) Composition of Reed-Solomon codes and geometric designs. **89k:94068**
Shen, Hao The use of finite geometries to construct block designs. (Chinese. English summary) **89b:05039**
Wei, Hong Zeng Using two-dimensional nonisotropic subspaces of finite unitary geometries to construct PBIB designs. (Chinese) **89b:05042**

51E10 Steiner systems

Di Paola, Jane W. The structure of the hyperbolic planes $S(2, k, k^2+(k-1)^2)$. **89g:51008**
Zeitler, Herbert Eine Klasse spezieller gemischter Ovale in $\mathrm{STS}(v)$. (English summary) [A class of special mixed ovals in $\mathrm{STS}(v)$] **89j:51006**

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Buekenhout, F. (*with* Delandtsheer, Anne; Doyen, Jean) Finite linear spaces with flag-transitive groups. **89k:20007**
Delandtsheer, Anne *see* **Buekenhout, F.; et al., 89k:20007**
Doyen, Jean *see* **Buekenhout, F.; et al., 89k:20007**
de Finis, Massimo On semiovals in projective planes. **89i:51013**
Fu, Hêng Lin Steiner quadruple systems with a spanning block design. **89f:05027**
Grannell, M. J. (*with* Griggs, T. S.; Phelan, J. S.) Countably infinite Steiner triple systems. **89c:05018**
Griggs, T. S. *see* **Grannell, M. J.; et al., 89c:05018**
Jungnickel, Dieter (*with* Vanstone, S. A.) Conical embeddings of Steiner systems. **89e:05053**
Lindström, Bernt Any STS(13) contains the non-Pappus configuration. **89d:05038**
Phelan, J. S. *see* **Grannell, M. J.; et al., 89c:05018**
Quattrocchi, Gaetano Maximum number of DMB PTS that have twelve blocks and are embeddable in an STS. (Italian. English summary) **89a:05032**
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Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]; Menichetti, Giampaolo) The collineation groups of Baer-elation planes. **89i:51008**
Bruen, Aiden A. (*with* Silverman, Robert) On extendable planes, M.D.S. codes and hyperovals in $PG(2,q)$, $q = 2^t$. **89i:51009**

Csima, J. (*with* Füredi, Z.) Colouring finite incidence structures. **89f:51037**
Czerwinski, Terry On finite projective planes with a single (P, l) transitivity. **89c:51009**
Drake, David A. (*with* Ho, Chat Yin) Projective extensions of Kirkman systems as substructures of projective planes. **89i:51010**
Dye, R. H. Twelve hexagons associated with the 10-point conic and the isomorphism $PSL_2(9) \simeq A_6$. **89c:51010**
Füredi, Z. *see* **Csima, J., 89f:51037**
Gonçalves, Adilson *see* **Ho, Chat Yin, 89a:51018**
Grundhöfer, Theo The groups of projectivities of finite projective and affine planes. **89f:51038**
Heimbeck, Günter Translationsebenen der Ordnung 49 mit Scherungen. (English summary) [Translation planes of order 49 with shears] **89h:51013**
— (*with* Wagner, Richard) Eine neue Serie von endlichen Translationsebenen. (English summary) [A new series of finite translation planes] **89m:51013**
Ho, Chat Yin (*with* Gonçalves, Adilson) On $PSU(3, q)$ as collineation groups. **89a:51018**
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— *see also* **Drake, David A., 89i:51010**
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— (*with* Kramer, Erika; Matulić-Bedenić, I.) On the full collineation group of projective planes of order 12. (Serbo-Croatian summary) **89f:51040**
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— (*with* Johnson, Norman Lloyd[1]) The centre of a finite semifield plane is a geometric invariant. **89f:51041**
— (*with* Johnson, Norman Lloyd[1]) The linearity question for abelian groups on translation planes. **89b:51013**
— *see also* **Biliotti, Mauro; et al., 89i:51008**
Johnson, Norman Lloyd[1] Tensor product and generalized Ott-Schaeffer planes. **89i:51011**
— *see also* **Jha, Vikram, 89a:51020; 89b:51013; 89f:51041** *and* **Biliotti, Mauro; et al., 89i:51008**
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Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 25 with small translation complement. **89a:51023**
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Quattrocchi, Pasquale Affine planes and Latin squares. (Italian) **89f:51042**
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— On admissible sets with two intersection numbers in a projective plane. **89d:51007**
Rotman, Joseph J. Collineation groups of projective planes of order n. **89f:51043**
Silverman, Robert *see* **Bruen, Aiden A., 89i:51009**
Spanicciati, Renata Nonexistence of nontrivial affine q^d-sets of an affine space $A_{d+1,q}$ with $d + 1 \geq 3$. (Italian. English summary) **89k:51011**
Vincenti, Rita Derived semifield planes of odd order admitting a dihedral group of affine homologies. **89f:51044**
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Wettl, Ferenc On the nuclei of a pointset of a finite projective plane. **89f:51045**

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Baker, R. D. (*with* Ebert, G. L.) Construction of two-dimensional flag-transitive planes. **89f:51017**
— (*with* Ebert, G. L.; Weida, R.) Another look at Bruen chains. **89c:51002**
Cherowitzo, William Closed arcs in finite projective planes. **89m:51014**
Dempwolff, U. Involutory homologies on affine planes. **89e:20005**
— A note on 2-groups and homologies on affine planes. (Italian summary) **89e:20006**
— A characterization of the generalized twisted field planes. **89f:51018**
Durgaprasad, K. V. *see* **Narayana Rao, M. L.; et al., 89k:51005**
Ebert, G. L. *see* **Baker, R. D.; et al., 89c:51002** *and* **89f:51017**
Fisher, J. Chris Conics, order, and k-arcs in $AG(2, q)$ with q odd. **89f:51049**
Grundhöfer, Theo Compact disconnected planes, inverse limits and homomorphisms. **89j:51014**
Hiramine, Yutaka Some translation planes admitting $SL(2, 5) \times SL(2, 5)$. **89j:51002**
Ho, Chat Yin On the order of a projective plane and planes with a totally irregular collineation group. **89g:20004**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Derivable nets defined by central collineations. **89g:51003**
— (*with* Johnson, Norman Lloyd[1]) Baer-elation planes. **89d:51002**
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Joshi, Vinod *see* **Narayana Rao, M. L.; et al., 89j:51003**
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Narayana Rao, M. L. (*with* Satyanarayana, K.) Collineations in the translation complement fixing an ideal point of a translation plane. **89g:51004**
— (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with orbit structure 2, 16 and 32. **89j:51003**
— (*with* Kuppuswamy Rao, K.; Subba Rao, G. V.) Translation complements of C-planes. IV. **89e:51002b**
— (*with* Subba Rao, G. V.; Kuppuswamy Rao, K.) Translation complements of C-planes. II. (Serbo-Croatian summary) **89e:51002a**
— (*with* Kuppuswamy Rao, K.; Durgaprasad, K. V.) Flag transitive planes of dimension four over GF(3). **89k:51005**
— (*with* Kuppuswamy Rao, K.; Subba Rao, G. V.) Translations complements of C-planes. III. **89k:51006**
Prince, Alan R. Regular orbits of collineation groups. **89a:20003**
Radziszewski, Krysztof On some inversion-like transformations of degenerate hyperbolic plane. **89f:51080**
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Stangarone, Rosa (*with* Terrusi, Antonio) Blocking sets contained in a triangle. (Italian. English summary) **89e:51010**
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Zanella, Corrado Geometric properties of the bases of the matroid associated with a projective plane of even order. (Italian. English summary) **89k:05028**

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

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Assmus, E. F., Jr. Biplanes in planes. **89d:51009**
Bader, Laura Some new examples of flocks of $Q^+(3, q)$. **89i:51012**
Baker, R. D. (*with* Ebert, G. L.) A new class of translation planes. **89d:51010**
Berardi, Luigia (*with* Beutelspacher, Albrecht) Partial partitions of finite projective spaces. **89b:51014**
Beutelspacher, Albrecht Enciphered geometry. Some applications of geometry to cryptography. **89b:51015**
— *see also* **Berardi, Luigia, 89b:51014**
Biliotti, Mauro (*with* Korchmaros, Gabor) Hyperovals with a transitive collineation group. **89a:51024**
Boros, Endre $PG(2, p^s)$, $p > 2$, has property $B(p + 2)$. **89e:51009**
Bruen, Aiden A. (*with* Hirschfeld, J. W. P.) Intersections in projective space. II. Pencils of quadrics. **89f:51046**
Buekenhout, F. On affine quadratic sets. **89b:51016**
Cherowitzo, William Hyperovals in Desarguesian planes of even order. **89c:51011**
— Closed arcs in finite projective planes. **89m:51014**
Conway, J. H. (*with* Kleidman, Peter B.; Wilson, Robert A.) New families of ovoids in O_8^+. **89h:51014**
Deza, M. *see* **Hamada, Noboru, 89j:51007**
Di Paola, Jane W. Designs from a minimum blocking set of $PG(2, 8)$. **89f:51047**
Ebert, G. L. Nests, covers, and translation planes. **89f:51048**
— *see also* **Baker, R. D., 89d:51010**
Ferri, Osvaldo A characterization of q^2-caps in $AG(3, q)$. (Italian. English summary) **89k:51012**
— A characterization of the hyperbolic paraboloids of $AG(3, q)$. (Italian. English summary) **89m:51015**
— Combinatorial properties characterizing the hyperbolic hyperboloids of $AG(3, q)$. (Italian. English summary) **89m:51016**
de Finis, Massimo On semiovals in projective planes. **89i:51013**
— A characterization of the complement of a cap in $PG(3, n)$. **89d:51011**
Fisher, J. Chris Conics, order, and k-arcs in $AG(2, q)$ with q odd. **89f:51049**
Furino, S. (*with* Vanstone, S. A.) Hyperplane skew resolutions in spaces of even dimension. **89m:51017**
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Glynn, David G. On a set of lines of $PG(3, q)$ corresponding to a maximal cap contained in the Klein quadric of $PG(5, q)$. **89h:51015**
Hamada, Noboru (*with* Deza, M.) Characterization of $\{2(q + 1) + 2, 2; t, q\}$-min · hypers in $PG(t, q)$ ($t \geq 3$, $q \geq 5$) and its applications to error-correcting codes. **89j:51007**
Hirschfeld, J. W. P. *see* **Bruen, Aiden A., 89f:51046**
Johnson, Norman Lloyd[1] Semifield flocks of quadratic cones. **89g:51009**
Jungnickel, Dieter Divisible semiplanes, arcs, and relative difference sets. **89f:51050**
Kestenband, Barbu C. Partitioning projective planes into arcs. **89i:51014**
Key, Jennifer D. Regular sets in geometries. **89a:51025**
Kleidman, Peter B. The 2-transitive ovoids. **89j:51008**
— *see also* **Conway, J. H.; et al., 89h:51014**
Korchmaros, Gabor *see* **Biliotti, Mauro, 89a:51024**
Larato, Bambina A characterization of the parabolic unitals of Buekenhout-Metz. (Italian. English summary) **89c:51012**
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O'Keefe, Christine M. On t-spreads of $PG((s + 1)(t + 1) - 1, q)$. **89h:51016**
Payne, S. E. *see* **Thas, J. A.; et al., 89j:51009**
Procesi Ciampi, Rita (*with* Rota, Rosaria) On k-sets of type $(0, m, n)$ in $S_{r,q}$ with three exterior hyperplanes. **89f:51051**
Rajola, Sandro A blocking set in $PG(3, q)$, $q \geq 5$. **89g:51010**
de Resmini, Marialuisa J. Some combinatorial properties of a semitranslation plane. **89f:51052**
— On the semifield plane of order 16 with kern GF(2). **89f:51053**
Rosati, Luigi Antonio Unitals in Hughes planes. **89f:51054**
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Thas, J. A. (*with* Payne, S. E.; Gevaert, H.) A family of ovals with few collineations. **89j:51009**
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— On (k, n)-blocking sets which can be obtained as a union of conics. **89g:51011**

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— (*with* Ebert, G. L.) Nests of size $q-1$ and another family of translation planes. **89k:51003**
Batten, Lynn Margaret Embedding pseudo-complements of quadrics in $\mathrm{PG}(n,q)$, $n\geq 3$, $q\geq 2$. **89m:51009**
Berardi, Luigia (*with* Eugeni, Franco) Blocking sets in the projective plane of order four. **89b:05057**
— (*with* Eugeni, Franco) Blocking sets and game theory: origins and problems. (Italian) **89j:51005**
Bonisoli, Arrigo On the sharply 1-transitive subsets of $\mathrm{PGL}(2,p^m)$. **89c:20010**
Bruen, Aiden A. (*with* Silverman, Robert) Arcs and blocking sets. II. **89d:05043**
Dillon, J. F. (*with* Wertheimer, M. A.) Graphs, codes, and designs in quadrics. **89h:51012**
Ebert, G. L. *see* **Baker, R. D., 89h:51017** *and* **89k:51003**
Eugeni, Franco (*with* Innamorati, Stefano) Arcs and blocking sets in symmetric designs. **89i:05047**
— *see also* **Berardi, Luigia, 89b:05057** *and* **89j:51005**
Gevaert, H. (*with* Johnson, Norman Lloyd[1]) Flocks of quadratic cones, generalized quadrangles and translation planes. **89m:51008**
Hall, J. I. The hyperbolic lines of finite symplectic spaces. **89f:51021**
Hamada, Noboru Characterization of min·hypers in a finite projective geometry and its applications to error-correcting codes. **89b:94029**
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— An optimal bound for embedding linear spaces into projective planes. **89m:51010**
— An improved bound for the embedding of linear spaces into projective planes. **89f:51023**
Niederreiter, Harald Point sets and sequences with small discrepancy. **89c:11120**
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Payne, S. E. Tight pointsets in finite generalized quadrangles. **89g:51012**
— Spreads, flocks, and generalized quadrangles. **89j:51010**
Puccio, Luigia *see* **de Resmini, Marialuisa J., 89e:51008**
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Wettl, Ferenc On the nuclei of a pointset of a finite projective plane. **89f:51045**

51E25 Finite nonlinear geometries

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Baker, R. D. (*with* Ebert, G. L.) A nonlinear flock in the Minkowski plane of order 11. **89h:51017**
Cohen, Arjeh M. (*with* Cooperstein, Bruce N.) The 2-spaces of the standard $E_6(q)$-module. **89c:51013**
Cooperstein, Bruce N. *see* **Cohen, Arjeh M., 89c:51013**
De Clerck, F. (*with* Gevaert, H.; Thas, J. A.) Flocks of a quadratic cone in $\mathrm{PG}(3,q)$, $q\leq 8$. **89d:51014**
Ealy, Clifton E., Jr. The computational complexity of finding subgeneralized quadrangles of a generalized quadrangle. **89f:51055**
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Eneva, Gergana Pencils of circles in the inversive non-Miquelian planes $S(q)$. (Bulgarian. English and Russian summaries) **89b:51020**
Frohardt, Daniel Groups which produce generalized quadrangles. **89d:51015**
Gevaert, H. *see* **De Clerck, F.; et al., 89d:51014**
Hanssens, G. (*with* Van Maldeghem, H.) A new look at the classical generalized quadrangles. **89a:51028**
— (*with* Van Maldeghem, H.) Coordinatization of generalized quadrangles. **89c:51014**
Luksch, Christine Die Automorphismengruppe der Polynomgeometrie vom Grad n. [The automorphism group of the polynomial geometry of degree n] **89k:51013**
Olanda, D. Seminversive planes. **89b:51021**
Olgun, Şükrü Some hyperbolic (Bolyai-Lobachevskii) planes obtained from finite projective planes. (Turkish. English summary) **89i:51015**
Pasini, Antonio Geometries of type C_n and F_4 with flag-transitive automorphism groups. **89a:51029**
Payne, S. E. Spreads, flocks, and generalized quadrangles. **89j:51010**
Rees, Sarah Embeddings of an M_{12} geometry: some simple combinatorial descriptions. **89f:51056**
Stroth, G. One node extensions of buildings. **89f:51057**
Surowski, David B. Decompositions and automorphisms of certain C_n geometries. **89f:51058**
Thas, J. A. Generalized quadrangles and flocks of cones. **89d:51016**
— *see also* **De Clerck, F.; et al., 89d:51014**
Van Maldeghem, H. *see* **Hanssens, G., 89a:51028** *and* **89c:51014**
Yoshiara, Satoshi A lattice theoretical construction of a GAB of the Suzuki sporadic simple group. **89a:51030**

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Bagchi, Bhaskar (*with* Narasimha Sastry, N. S.) One-step completely orthogonalizable codes from generalized quadrangles. **89d:94038**
Hirschfeld, J. W. P. (*with* Voloch, J. F.) The characterization of elliptic curves over finite fields. **89g:14011**
Lozanov, Chavdar On the nonequivalency of the theorem of Miquel M_8 with a four-point case of the theorem M_4^2. **89f:51027**
Mencerrey, Yves Miquelian inversive planes which admit an orthogonality both in the sense of Dembowski and Hughes and of Benz. **89h:51007**
Narasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 89d:94038**
Ughi, Emanuela On (k,n)-blocking sets which can be obtained as a union of conics. **89g:51011**
Voloch, J. F. *see* **Hirschfeld, J. W. P., 89g:14011**

51E30 Other finite incidence structures [see also 05B30]

Bagchi, Bhaskar (*with* Narasimha Sastry, N. S.) Codes associated with generalized polygons. **89h:51018**
Berardi, Luigia (*with* Beutelspacher, Albrecht) Blocking sets of the known biplanes. (Italian summary) **89k:51014**
Beutelspacher, Albrecht *see* **Berardi, Luigia, 89k:51014**
De Clerck, F. (*with* Gevaert, H.; Thas, J. A.) Translation partial geometries. **89c:51015**
De Soete, M. (*with* Thas, J. A.) A coordinatization of generalized quadrangles of order $(s,s+2)$. **89k:51015**
Fuji-Hara, R. (*with* Vanstone, S. A.) Hyperplane skew resolutions and their applications. **89f:51059**
Garner, Cyril W. L. Midpoints and midlines in a finite hyperbolic plane. **89c:51016**
Gevaert, H. *see* **De Clerck, F.; et al., 89c:51015**
Löwe, Stefan Irreducible representations of Hecke algebras of rank 2 geometries. **89d:51017**
Narasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 89h:51018**
Payne, S. E. Tight pointsets in finite generalized quadrangles. **89g:51012**
— The Thas-Fisher generalized quadrangles. **89f:51060**
Thas, J. A. *see* **De Clerck, F.; et al., 89c:51015** *and* **De Soete, M., 89k:51015**
Ušan, Janez LN-k- and RN-k-seminets. (Russian. Serbo-Croatian summary) **89f:51061**
— k-$\langle 2\rangle$-seminets. (Russian. Serbo-Croatian summary) **89g:51013**
Vanstone, S. A. *see* **Fuji-Hara, R., 89f:51059**

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Buekenhout, F. (*with* Buset, Dominique) On the foundations of incidence geometry. **89b:51011**
Buset, Dominique *see* **Buekenhout, F., 89b:51011**
Csima, J. (*with* Füredi, Z.) Colouring finite incidence structures. **89f:51037**
Dye, R. H. A quick geometrical proof that $G_2(K)$ is maximal in $\mathrm{P}\Omega_7(K)$. **89h:20067**
Eugeni, Franco (*with* Innamorati, Stefano) Arcs and blocking sets in symmetric designs. **89i:05047**
Fiori, Carla Partial geometries and sets of permutations. (Italian. English summary) **89e:51003**
Füredi, Z. *see* **Csima, J., 89f:51037**
Innamorati, Stefano *see* **Eugeni, Franco, 89i:05047**
Kern, Walter On finite locally projective planar spaces. **89f:51022**
Key, Jennifer D. Regular sets in geometries. **89a:51025**
Knarr, Norbert Projectivities of generalized polygons. **89e:20008**
Kołodziejczyk, K. (*with* Romanowicz, Z.) On an application of Hall's representatives theorem to a finite geometry problem. **89f:05047**
Neumaier, A. (*with* Seidel, J. J.) Discrete measures for spherical designs, eutactic stars and lattices. **89i:05072**
Payne, S. E. Spreads, flocks, and generalized quadrangles. **89j:51010**
Romanowicz, Z. *see* **Kołodziejczyk, K., 89f:05047**
Ryan, Charles T. The weight distribution of a code associated to intersection properties of the Grassmann variety $G(3,6)$. **89k:94061**
Seidel, J. J. *see* **Neumaier, A., 89i:05072**
Siemons, Johannes Centralizer algebras for an automorphism group of a finite incidence structure. (Italian summary) **89m:20004**
Trojan, Allan Geometry in Janko's first group. **89m:20005**

51E99 None of the above, but in this section

Items with secondary classifications in 51E99

André, Johannes Endliche nichtkommutative Geometrie. [Finite noncommutative geometry] **89m:51004**
Petrov, E. E. Harmonics on a finite projective space. **89k:20042**

51Fxx Metric geometry

51F05 Absolute planes

Greenberg, Marvin Jay Aristotle's axiom in the foundations of geometry. **89m:51019**

51F15 Reflection groups, reflection geometries [see also 20H10, 20H15]

Baltag, I. A. ★ Методы построения дискретных групп преобразований симметрии пространства Минковского. (Russian) [Methods for constructing discrete groups of symmetry transformations of a Minkowski space] **89j:51011**
(**Belov, N. V.**) *see* **Crystallography and crystal chemistry, 89h:51021**

Brückmann, Peter (*with* Staskowiak, Marion) Zentralbündel von Schrägspiegelungen an Ebenen im äquiaffinen Raum. [Central bundles of skew reflections in planes in the equiaffine space] **89d:51018**

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de Bruijn, N. G. Modulated quasicrystals. **89a:51031**

Burckhardt, Johann Jakob ★ Die Symmetrie der Kristalle. (German) [The symmetry of crystals] **89m:51020**

(Haüy, René-Just) *see* **Burckhardt, Johann Jakob, 89m:51020**

Kawasaki, Toshikazu (*with* Yoshida, Masaaki) Crystallographic flat origamis. **89h:51020**

Krivoruchko, A. I. Figures with nondiscrete families of hyperplanes of oblique symmetry. (Russian) **89i:51016**

Magalyas, L. K. Point symmetry groups with invariant nondegenerate planes in the space ${}^2R_4$. (Russian) **89k:51016**

(Scholz, E.) *see* **Burckhardt, Johann Jakob, 89m:51020**

Staskowiak, Marion *see* **Brückmann, Peter, 89d:51018** *and* **89h:51019**

(Vaĭnshteĭn, B. K.) *see* **Crystallography and crystal chemistry, 89h:51021**

Yoshida, Masaaki *see* **Kawasaki, Toshikazu, 89h:51020**

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Borcherds, Richard Automorphism groups of Lorentzian lattices. **89b:20018**

Bożejko, Marek (*with* Januszkiewicz, T.; Spatzier, R. J.) Infinite Coxeter groups do not have Kazhdan's property. **89i:22025**

Bujalance, J. A. Normal subgroup of even index in an NEC group. **89j:20056**

Chuprunov, E. V. (*with* Kuntsevich, T. S.; Tarkhova, T. N.) On the symmetry of regular systems of points of *n*-dimensional space groups. (Russian) **89k:20068**

Jablan, Slavik V. Groups of simple and multiple band antisymmetry. (Russian) **89c:20072**

Janner, A. *see* **Janssen, Ted W. J. M., 89g:82055**

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Kramer, Peter Quasicrystals: from periodic to nonperiodic order in solids. **89f:82068**

Kuntsevich, T. S. *see* **Chuprunov, E. V.; et al., 89k:20068**

Nolte, Wolfgang Minkowskische Hjelmslevgruppen über lokalen Ringen. (English summary) [Minkowskian Hjelmslev groups over local rings] **89b:51010**

Riemenschneider, Oswald ★ Platonische Zahlentripel als Indikatoren verborgener Beziehungen zwischen einfachen mathematischen Objekten. (German) [Platonic number triples as indicators of hidden relations between simple mathematical objects] **89e:00001**

Spatzier, R. J. *see* **Bożejko, Marek; et al., 89i:22025**

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Wernicke, Bernd Topologische Möbiusebenen in spiegelungsgeometrischer Darstellung. [Topological Möbius planes in reflection-geometric presentation] **89m:51026**

Yuan, Bing Cheng The factorization length theorem for the orthogonal subgroup $O_n(V)$ and its commutator subgroup $\Omega_n(V)$. (Chinese) **89k:20060**

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51F20 Congruence and orthogonality [see also 20H05]

Alonso Romero, Javier (*with* Benítez, Carlos) The Joly's construction: a common property of some generalized orthogonalities. **89a:51032**

Andreescu, D. *see* **Radó, F.; et al., 89m:51021**

Benítez, Carlos *see* **Alonso Romero, Javier, 89a:51032**

Kroll, Hans-Joachim Zum Begriff des Euklidischen Raumes. (English summary) [On the concept of Euclidean space] **89f:51062**

Litvinko, P. G. *see* **Rublev, B. V.; et al., 89k:51017**

Petunin, Yu. I. *see* **Rublev, B. V.; et al., 89k:51017**

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Radó, F. (*with* Andreescu, D.; Vâlcan, D.) Mappings of E^n into E^m preserving two distances. **89m:51021**

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Sieber, Helmut Ein elementargeometrischer Beweis des Lotensatzes von Hjelmslev. [An elementary geometrical proof of Hjelmslev's perpendicularity theorem] **89c:51017**

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Edelstein, Michael Isometric decompositions. **89a:46046**

51F25 Orthogonal and unitary groups [see also 20H05]

Knüppel, Frieder Products of involutions in orthogonal groups. **89a:51033**

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Ellers, Erich W. (*with* Frank, Rolfdieter) Products of quasireflections and transvections over local rings. **89h:51008**

Frank, Rolfdieter *see* **Ellers, Erich W., 89h:51008**

Gevaert, H. *see* **Thas, J. A.; et al., 89j:51009**

Hotje, Herbert Kinematische Abbildungen. [Kinematic mappings] **89f:51064**

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Gardner, Richard J. (*with* Mauldin, R. Daniel) Bijections of $\mathbf{R}^n$ onto itself. **89h:51023**

Georgiev, G. Kh. (*with* Petrova, Rusanka G.) Some applications of the isometric transformations in a space. (Bulgarian. English summary) **89f:51063**

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Kuz'minykh, A. V. Mappings that almost preserve angles. **89k:51019**

— Mappings that almost preserve convexity. **89m:51022**

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Polonijo, Mirko Isometries of the plane. (Serbo-Croatian) **89m:51023**

Struve, Horst (*with* Struve, Rolf) Zum Begriff der projektiv-metrischen Ebene. [On the concept of the projective-metric plane] **89b:51023**

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Szymański, Stanisław On fragments of the metric geometry on the sphere. (Polish summary) **89g:51014**

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Herburt, I. (*with* Moszyńska, M.) On intrinsic embeddings. (Serbo-Croatian summary) **89m:54043**

Huckenbeck, Ulrich Ein verschärfter und verallgemeinerter Satz von Alexandrov. (English summary) [A sharpened and generalized theorem of Aleksandrov] **89a:51011**

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Rassias, Themistocles M. The stability of linear mappings and some problems on isometries. **89f:47027**

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Yang, Lu (*with* Zhang, Jing Zhong) Metric sum and Alexander symmetrization. (Chinese) **89h:52012**

Zhang, Jing Zhong *see* **Yang, Lu, 89h:52012**

51G05 Ordered geometries (ordered incidence structures, etc.)

Brumfiel, G. W. The tree of a non-Archimedean hyperbolic plane. **89m:51024**

Frank, Rolfdieter A short proof that ordered linear spaces are locally projective. **89a:51034**

Hartmann, P. Die Stellentopologie projektiver Ebenen und Lenz-topologische Ebenen. [The place topology of projective planes and Lenz topological planes] **89j:51012**

Kalhoff, Franz Eine Kennzeichnung anordnungsfähiger Ternärkörper. (English summary) [A characterization of orderable ternary fields] **89j:51013**

Kreuzer, Alexander Zur Abhängigkeit von Anordnungsaxiomen. (English summary) [On the dependence of axioms of order] **89g:51015**

— Klassifizierung von Halbordnungen. (English summary) [Classification of half orders] **89k:51020**

Lewandowski, Grzegorz M. (*with* Szczerba, L. W.) An axiom system for the theory of the one-dimensional betweenness relation. **89g:51016**

Pambuccian, Victor An axiom system for plane Euclidean geometry. (Russian summary) **89h:51024**

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— On some incidence systems on the universe of lines of ordered Minkowski planes. **89a:51035**

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Ben-Israel, Adi *see* **Ben-Tal, A., 89b:52001**

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Chobanov, Ivan Complex standard vector spaces. (Russian summary) **89h:15002**

Kalhoff, Franz Zur Vervollständigung natürlich angeordneter Cartesischer Gruppen. (English summary) [On the completion of naturally ordered Cartesian groups] **89d:06031**

Schmidt, Stefan E. Projektive Räume mit geordneter Punktmenge. [Projective spaces with ordered point set] **89a:51004**

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51Hxx Topological geometry

51H05 General theory

Szambien, Horst Order and uniform structure in projective geometry. **89d:51019**

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Atsuyama, Kenji The connection between the symmetric space $E_8/S_s(16)$ and projective planes. **89m:53085**

51H10 Topological linear incidence structures

Betten, Dieter (*with* Knarr, Norbert) Rotationsflächen-Ebenen. [Planes generated by rotational surfaces] **89b:51025**

— Einige Klassen topologischer 3-Räume. [Some classes of topological 3-spaces] **89b:51026**

Grundhöfer, Theo Compact disconnected Moufang planes are Desarguesian. **89a:51036**

— Compact disconnected planes, inverse limits and homomorphisms. **89j:51014**
Hähl, Hermann Die Oktavenebene als Translationsebene mit großer Kollineationsgruppe. (English summary) [The Cayley plane as a translation plane with a large collineation group] **89m:51025**
Knarr, Norbert 4-dimensionale projektive Ebenen vom Lenz-Barlotti-Typ II.2. (English summary) [4-dimensional projective planes of Lenz-Barlotti type II.2] **89d:51020**
— 4-dimensionale projektive Ebenen mit großer abelscher Kollineationsgruppe. (English summary) [4-dimensional projective planes with large abelian collineation group] **89c:51018**
— *see also* **Betten, Dieter, 89b:51025**

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Baker, C. A. (*with* Lane, N. D.; Lorimer, J. W.) A construction for topological non-Desarguesian affine Hjelmslev planes. **89a:51013**
Hartmann, P. Die Stellentopologie projektiver Ebenen und Lenz-topologische Ebenen. [The place topology of projective planes and Lenz topological planes] **89j:51012**
Lane, N. D. *see* **Baker, C. A.; et al., 89a:51013**
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51H15 Topological nonlinear incidence structures

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Steinke, Günter F. Semiclassical topological flat Laguerre planes obtained by pasting along two parallel classes. **89k:51021**
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51H20 Topological geometries on manifolds [see also 57–XX]

Brada, Claude (*with* Pecaut-Tison, Françoise) Géométrie du plan projectif des octaves de Cayley. (English summary) [Geometry of the projective plane of Cayley octaves] **89a:51037**
Knarr, Norbert Group preserving extensions of skew parabola planes. **89b:51027**
Pecaut-Tison, Françoise *see* **Brada, Claude, 89a:51037**
Salzmann, Helmut Compact 16-dimensional projective planes with large collineation groups. IV. **89d:51022**
Seidel, Hans-Peter Groups of homologies in 4-dimensional stable planes are classical. **89g:51017**

51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

Items with secondary classifications in 51H25

Brada, Claude ★ Éléments de la géométrie des octaves de Cayley. (French) [Elements of the geometry of Cayley numbers] **89a:53056**
Hähl, Hermann Differentiable fibrations of the $(2n-1)$-sphere by great $(n-1)$ - spheres and their coordinatization over quasifields. **89a:57032**

51H99 None of the above, but in this section

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Björner, Anders (*with* Kalai, Gil) An extended Euler-Poincaré theorem. **89m:52009**
Kalai, Gil *see* **Björner, Anders, 89m:52009**

51Jxx Incidence groups

51J05 General theory

Pianta, Silvia On automorphisms for some fibered incidence groups. **89c:51019**

51J10 Projective incidence groups

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Kist, Günter Theorie der verallgemeinerten kinematischen Räume. [Theory of generalized kinematic spaces] **89d:51023**

51J15 Kinematic spaces

Hotje, Herbert Kinematische Abbildungen. [Kinematic mappings] **89f:51064**
Kist, Günter Theorie der verallgemeinerten kinematischen Räume. [Theory of generalized kinematic spaces] **89d:51023**
Pianta, Silvia Noncommutative affine kinematic spaces and their automorphism group. **89d:51024**
Zizioli, Elena Fibered incidence loops and kinematic loops. **89a:51038**

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Zizioli, Elena An independence theorem on the conditions for incidence loops. **89h:51005**

51J20 Representation by near-fields and near-algebras [see also 12K05, 16A76]

Bader, Laura On generalized André planes. (Italian. English summary) **89e:51012**
Meyer, Rita (*with* Misfeld, Jürgen; Zizioli, Elena) On topological incidence groupoids. **89a:51039**
Misfeld, Jürgen *see* **Meyer, Rita; et al., 89a:51039**
Tecklenburg, Helga Vektorräume über Fastkörpern. [Vector spaces over near-fields] **89f:51065**
Zizioli, Elena *see* **Meyer, Rita; et al., 89a:51039**

Items with secondary classifications in 51J20

Kist, Günter Inzidenzräume mit Süß'scher Kollineationsgruppe. (English summary) [Incidence spaces with Süss collineation group] **89g:51001**

51J99 None of the above, but in this section

Maxson, C. J. (*with* Oswald, Alan) Operators of fibered groups. **89d:51025**
Oswald, Alan *see* **Maxson, C. J., 89d:51025**

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Fuchs, Peter Rudolf (*with* Maxson, C. J.) Kernels of covered groups with operators. **89e:20046**
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51Kxx Distance geometry

51K05 General theory

Andalafte, Edward Z. (*with* Freese, Raymond W.) Characterization of inner product spaces in V- and L-spaces. **89m:51027**
Dress, Andreas (*with* Havel, Timothy F.) The fundamental theory of distance geometry. **89c:51020**
Freese, Raymond W. *see* **Andalafte, Edward Z., 89m:51027**
Havel, Timothy F. *see* **Dress, Andreas, 89c:51020**
Kuz'minykh, A. V. Isometricity of mappings that almost preserve certain distances. **89i:51017**
Nickolas, Peter (*with* Yost, David Thomas) The average distance property for subsets of Euclidean space. **89d:51026**
Rassias, Themistocles M. Some remarks on isometric mappings. (Serbo-Croatian summary) **89m:51028**
Yost, David Thomas *see* **Nickolas, Peter, 89d:51026**
Zeng, Zhen Bing The average distance constant of the skeletons of regular polygons and polyhedra. (Chinese) **89f:51066**

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Radó, F. (*with* Andreescu, D.; Vâlcan, D.) Mappings of E^n into E^m preserving two distances. **89m:51021**
Vâlcan, D. *see* **Radó, F.; et al., 89m:51021**

51K10 Synthetic differential geometry

Dimantov, E. A. Correlative transformations of the complex projective plane. (Russian) **89f:51067**

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Balaceanu, Constantin *see* **Burstein, Gabriel; et al., 89c:58004**
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Moerdijk, Ieke On the embedding of manifolds into the smooth Zariski topos. **89c:18008**
Nicu, Mihail D. *see* **Burstein, Gabriel; et al., 89c:58004**

51K99 None of the above, but in this section

Aurenhammer, F. (*with* Imai, Hiroshi) Geometric relations among Voronoi diagrams. **89h:51026**
Imai, Hiroshi *see* **Aurenhammer, F., 89h:51026**

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Jiang, Xing Yao Inequalities for vertex angles of higher-dimensional simplexes. (Chinese) **89f:52030**
Vasiu, A. Mappings of E_2 into E_3 preserving the unit area of a triangle. **89b:51024**
Zhou, Jia Nong An inequality involving the distances between points on a sphere. (Chinese) (Not in MR)

51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

Nöbeling, Georg Über die Anzahl der ordnungsgeometrischen Scheitel von Kurven. Teil I. [On the number of order-geometric vertices of curves. I] **89a:51040**
Spoar, Gary Curves of minimal order. **89a:51041**
— A generalized four-vertex theorem. **89i:51018**

51Mxx Real and complex geometry

51M05 Euclidean geometries

Abi-Khuzam, Faruk A new geometric inequality. **89f:51068**
Ali, Jamaludin Md. Another proof of Napoleon's triangle theorem. (Malay summary) **89f:51069**
Andrica, Dorin The refinement of some geometric inequalities. **89a:51042**

Arocha Reyes, José Luis ★ Lo maravilloso y trascendental de la cuadratura del círculo. (Spanish) [The marvelous and transcendental in the quadrature of the circle] **89d:51027**

Arslanagić, Š. Z. Some improvements for triangle inequalities. (Serbo-Croatian summary) **89h:51027**

Bankoff, Leon The metamorphosis of the butterfly problem. **89m:51029**

Baptist, Peter Über Nagelsche Punktepaare. [On Nagel-like pairs of points] **89f:51070**

— (*with* Schröder, Eberhard M.) Merkwürdige Punkte von Dreiecken in euklidischen und minkowskischen Ebenen. [Strange points of triangles in Euclidean and Minkowskian planes] **89h:51028**

Collet, Michel (*with* Griso, Georges) ★ Le cercle d'Euler. (French) [The Euler circle] **89a:51043**

Corach, G. (*with* McGowan, J.; Porta, Horacio) Some inequalities for the triangle. **89k:51022**

Danikas, N. Eine komplexe Ungleichung aus elementarer Sicht. [A complex inequality from an elementary viewpoint] **89i:51019**

Eddy, R. H. (*with* Sabin, G. C. W.) Inequalities in R, r, s for the inscribed circumscribed quadrilateral. **89j:51015**

Griso, Georges *see* **Collet, Michel, 89a:51043**

Hoehn, Larry Some properties of polygons inside a circle. **89a:51044**

Janous, W. A further remark concerning Nagel Cevians. **89f:51071**

Jiang, Xing Yao The Steiner problem on a surface. **89c:51021**

Jović, Dragoljub S. A triangle, one of whose sides is the harmonic mean of the remaining two sides. (Serbo-Croatian) (Not in MR)

Kaczmarek, Jerzy On the configurations of orthopoles. **89e:51013**

Kratz, Johannes Über Eigenschaften von Ceva-Dreiecken. [On properties of Ceva triangles] **89h:51029**

Kyuchukov, Aleksand″r N. (*with* Trendafilov, Ivan D.) Equations and identities for some quadrilaterals. (Bulgarian. English summary) **89h:51030**

Mader, Adolf A Euclidean model for Euclidean geometry. **89m:51030**

McGowan, J. *see* **Corach, G.; et al., 89k:51022**

Milin, N. Ya. Measurement of geometric magnitudes. (Russian) **89f:51072**

Milošević, D. M. Some inequalities for a triangle. (Serbo-Croatian summary) **89f:51073**

Oryszczyszyn, Henryk Ternary geometrical operations in Euclidean geometry. **89h:51031**

Palman, Dominik The nine-pointed circle and the Feuerbach theorem. (Serbo-Croatian) (Not in MR)

— Napoleonic triangles and the isogonal centers of a triangle. (Serbo-Croatian) (Not in MR)

Pickert, Günter Der projektive Hintergrund einer elementargeometrischen Konstruktion. [The projective background of an elementary-geometric construction] **89f:51074**

Porta, Horacio *see* **Corach, G.; et al., 89k:51022**

Rigby, J. F. Napoleon revisited. **89h:51032**

Sabin, G. C. W. *see* **Eddy, R. H., 89j:51015**

Schoenberg, I. J. Outdoor sculptures. **89k:51023**

Schröder, Eberhard M. *see* **Baptist, Peter, 89h:51028**

Schütte, K. Eine Verallgemeinerung des Satzes von Napoleon. [A generalization of the Napoleon theorem] **89c:51022**

Sieber, Helmut Aus der Spiegelungsgeometrie. [On reflection-symmetric geometry] **89f:51075**

Stroeker, R. J. Brocard points, circulant matrices, and Descartes' folium. **89f:51076**

Talbot, R. F. Generalizations of Pythagoras' theorem in n dimensions. **89h:51033**

Tondeur, Philippe Barycentric representation for the incenter and excenters of a triangle. **89f:51077**

Trendafilov, Ivan D. *see* **Kyuchukov, Aleksand″r N., 89h:51030**

Veldkamp, G. R. On circles which osculate three of the four osculating circles of a triangle. (Dutch) **89k:51024**

Volenec, Vladimir A characterization of the regular pentagon. (Serbo-Croatian summary) **89f:51078**

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Anglin, W. S. Using Pythagorean triangles to approximate angles. **89c:11040**

Böhm, Johannes (*with* Börner, W.; Hertel, E.; Krötenheerdt, O.; Mögling, Werner; Stammler, L.) ★ Geometrie. I. (German) [Geometry. I] **89b:51001**

Börner, W. *see* **Böhm, Johannes; et al., 89b:51001**

Greenberg, Marvin Jay Aristotle's axiom in the foundations of geometry. **89m:51019**

Hertel, E. *see* **Böhm, Johannes; et al., 89b:51001**

Krötenheerdt, O. *see* **Böhm, Johannes; et al., 89b:51001**

Mögling, Werner *see* **Böhm, Johannes; et al., 89b:51001**

Palman, Dominik The golden section, Ptolemy's theorem and the construction of pentagons and decagons. (Serbo-Croatian) (Not in MR)

Pambuccian, Victor Simplicity. **89f:03007**

Pickert, Günter Die Existenz von Ceva-Dreiecken gegebener Form. [The existence of Ceva triangles of given form] **89m:51039**

Stammler, L. *see* **Böhm, Johannes; et al., 89b:51001**

(Wussing, Hans) *see* **Böhm, Johannes; et al., 89b:51001**

51M10 Hyperbolic and elliptic geometries

Giering, Oswald Eine Variante des Bilinski-Modells der ebenen hyperbolischen Geometrie. (English summary) [A variant of the Bilinski model of plane hyperbolic geometry] **89f:51079**

Gorelik, E. M. Metric fiberings of a Lobachevskiĭ space. **89k:51025**

Guts, A. K. Dense order in the Lobachevskiĭ space. **89m:51031**

Martínez, Ernesto Hyperbolic polygons with a circumcircle. (Spanish) **89m:51032**

Radziszewski, Krysztof On some inversion-like transformations of degenerate hyperbolic plane. **89f:51080**

da Rocha, Luiz Fernando Carvalho ★ Introdução à geometria hiperbólica plana. (Portuguese) [Introduction to plane hyperbolic geometry] **89h:51034**

Waterman, P. L. Purely elliptic Möbius groups. **89i:51020**

Zhou, Zhan Two theorems of three-dimensional elliptic Möbius groups. (Chinese summary) **89i:51021**

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51M15 Geometric constructions

Adamyan, V. G. A synthetic method for constructing and investigating third-order curves with singular points. (Russian) **89j:51016**

Akhmadkulov, A. On the problem of constructing complex adjoint lines from arcs of circles and straight segments. (Russian) **89g:51018**

Cardoso, Jayme M. On plane homology. (Portuguese) **89j:51017**

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Gleason, Andrew M. Angle trisection, the heptagon, and the triskaidecagon. **89d:51028**

Hou, Xiao Rong (*with* Yuan, Yuan) The theory of constructions with a rusty compass. (Chinese) **89f:51081**

Mendelsohn, N. S. (*with* Padmanabhan, R.; Wolk, Barry) Straight edge constructions on planar cubic curves. **89c:51023**

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Chee, P. S. Projective geometry. I. (Malay. English summary) **89a:51001**

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51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Engel, Peter On monohedral space tilings in M. C. Escher's work. (*see* **89m:00011**)

(Escher, M. C.) *see* **Engel, Peter, (89m:00011)** *and* **Schattschneider, Doris, (89m:00011)**

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Kost, Betina (*with* Martini, Horst) Isophotische Elementscharen im E^4. [Isophotic linear systems of elements in E^4] **89k:51027**

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51M25 Length, area and volume [see also 26B15]

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Hohenberger, Holger Volumenberechnungen beim schiefen Kreiskegelstumpf. [Computing the volume of the oblique circular frustrum] **89i:51022**
Liggett, James A. Exact formulae for areas, volumes and moments of polygons and polyhedra. **89m:51036**
Mao, Qi Ji (*with* Zuo, Quan Ru) A geometric inequality for simplices with tangent points as vertices. (Chinese) **89d:51031**
— *see also* **Zuo, Quan Ru,** (Not in MR)
Mitrinović, D. S. (*with* Pečarić, Josip E.) About the Neuberg-Pedoe and the Oppenheim inequalities. **89a:51048**
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51M30 Line geometries and their generalizations

Havlicek, Hans Lineare Geradenkomplexe über Schiefkörpern. [Linear line complexes over skew fields] **89h:51038**

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Malakhovskiĭ, V. S. Differential geometry of manifolds of quadrics. **89d:53026**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

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51M99 None of the above, but in this section

(Baker, J. Eddie) *see* **Tarnai, Tibor, 89f:51086**
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Tarnai, Tibor Les mécanismes finis et la charpente octogonale de la cathédrale d'Ely. [Finite mechanisms and the timber octagon of Ely cathedral] **89f:51086**
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Zastrow, Andreas Transitivity domains of groups of similarities. **89k:51033**
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51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry

Baracs, Janos Descriptive geometry in four dimensions. **89a:51050**
Li, Feng E A synthetic solution method for the oblique intersection of two conicoids. (Chinese. English summary) **89k:51034**

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Xie, Bu Ying The relation between the radii of curvature of a surface curve and its image when the normal to the surface is parallel to the plane of projection. (Chinese. English summary) **89m:53007**

51N10 Affine analytic geometry

Artykbaev, A. A full angle around the vertex of a cone in a Galilei space. **89m:51037**
Gao, Shi Orthogonal projection formulas and quadratic hypersurfaces. (Chinese) **89j:51019**

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Shaw, Ronald Ternary vector cross products. **89c:15038**

51N15 Projective analytic geometry

Bian, Song Yuan The common self-polar triangle of conics. (Chinese. English summary) **89k:51036**
Degoli, Lando Sur une application du déter-cube. (English and Serbo-Croatian summaries) [On an application of the deter cube] **89b:51029**
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Shuker, N. H. Representation of homographies by points of S_3. (Arabic summary) **89d:51035**
Verri, Alessandro (*with* Yuille, A.) Some perspective projection invariants. **89c:51024**
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51N20 Euclidean analytic geometry

Amir-Moéz, Ali R. Vector geometry of spheres. **89d:51036**
Balk, M. B. (*with* Boltyanskiĭ, V. G.) ★ Геометрия масс. (Russian) [The geometry of masses] **89g:51020**
Boltyanskiĭ, V. G. *see* **Balk, M. B., 89g:51020**
Boyd, J. N. (*with* Farley, R. W.; Raychowdhury, P. N.) Invariance of geometric equations in convex coordinates. **89d:51037**
Chobanov, Ivan Analytic geometries in complex standard vector spaces. (Russian summary) **89k:51038**
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Farley, R. W. *see* **Boyd, J. N.; et al., 89d:51037**
Gdoyan, M. A. On the geometry of a partial mapping of a three-dimensional sphere into Euclidean space. (Russian. Armenian summary) **89h:51041**
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Hall, Ernest L. (*with* Park, Kyoung T.) Form recognition using moment invariants for three-dimensional perspective transformations. (*see* **89g:82013**)
Ivanović, Momčilo Theoretical bases for determining the elements of concentric curves. (Serbo-Croatian. English summary) **89a:51052**
Kateřiňák, Josef Mini-programs for hidden lines on surface. (Russian and Czech summaries) **89d:51038**
Makuchowski, Władysław Equidistants of a point and a circle. (Polish. English summary) **89i:51025**
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Maurer, Peter M. A rose is a rose.... **89c:51025**
Pakula, Lewis A note on Venn diagrams. **89k:51040**
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Pickert, Günter Die Existenz von Ceva-Dreiecken gegebener Form. [The existence of Ceva triangles of given form] **89m:51039**
Raczyński, Tadeusz Problème de l'incidence dans l'application gauche rotativement. (Russian and Polish summaries) [The problem of incidence in rotationally skew mappings] **89i:51027**
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Rieger, Georg Johann Über ebene Schnitte von Kegeln. [On plane intersections of cones] **89i:51028**
Stachel, H. Ein bewegliches Tetraederpaar. [A movable pair of tetrahedra] **89i:51029**
Ternovskiĭ, V. A. Algebraic surfaces with the symmetry group of the polyhedron 3_{21}. (Russian) **89m:51040**
Xu, Liang Zhong A matrix method for finding the equation of a tangent to a quadratic curve. (Chinese) **89k:51041**

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Bode, Dieter ★ Zur Bestimmung eines Kreises durch drei Punkte. (German) [On the definition of a circle through three points] **89j:65040**
Chou, Shang-Ching A method for the mechanical derivation of formulas in elementary geometry. **89b:03021**
Fandiño Arbeláez, Ramón E. Geometric and matrix-theoretic interpretations of Fermat's last theorem. (Spanish) **89b:11025**
Gao, Shi Orthogonal projection formulas and quadratic hypersurfaces. (Chinese) **89j:51019**
Horadam, A. F. (*with* Shannon, A. G.) Fibonacci and Lucas curves. **89c:11031a**
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Jiang, Xing Yao The Steiner problem on a surface. **89c:51021**
Kumar, Rajive^1 *see* **Singh, Bani, 89k:49001**
Rigby, J. F. Napoleon revisited. **89h:51032**
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Singh, Bani (*with* Kumar, Rajive^1) Brachistochrone problem in nonuniform gravity. **89k:49001**
Strubecker, K. Eine einfache Konstruktion von Punkten und Tangenten der Ellipse. [A simple construction of points and tangents of the ellipse] **89a:51046**
Vasiu, A. Mappings of E_2 into E_3 preserving the unit area of a triangle. **89b:51024**

51N25 Analytic geometry with other transformation groups

Abbasov, N. T. (*with* Alieva, M. G.) Symplectic spaces over the algebra of biquasialternions. (Russian) **89f:51091**
Alieva, M. G. *see* **Abbasov, N. T., 89f:51091**
Kasymova, S. S. Semisymplectic spaces over the algebra of real matrices. (Russian) **89g:51021**
Mäurer, Helmut Regulär operierende, invariante Mengen semilinearer Abbildungen. (English summary) [Regularly operating, invariant sets of semilinear mappings] **89d:51039**

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Husty, M. (*with* Röschel, Otto) On a particular class of cyclides in isotropic, respectively, pseudoisotropic space. **89b:53025**
Röschel, Otto *see* **Husty, M., 89b:53025**
Shuker, N. H. Commutativity of irreducible symmetric two-two correspondences which have the same branch points. (Arabic summary) **89d:14064**

51N30 Geometry of classical groups [see also 20Gxx, 14Lxx]

Grecu, Eftimie Sur les groupes symplectiques. [On symplectic groups] **89c:51026**
Ternovskiĭ, V. A. Special invariants of the group E_6. (Russian) **89f:51092**

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Dye, R. H. A quick geometrical proof that $G_2(K)$ is maximal in $\mathrm{P}\Omega_7(K)$. **89h:20067**
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51N35 Questions of classical algebraic geometry [see also 14Nxx]

Apostolova, M. P. (*with* Petrov, L. K.) Special cases of hypersurfaces in $\mathbf{P}_4$ obtained by stereographic projection of a quadric onto a plane and a collineation. I. (Bulgarian. English and Russian summaries) **89f:51093**
Grigorov, Kh. (*with* Stoev, G. S.) A class of Cremona transformations in $\mathbf{P}_4$ of type $T_{4\text{-}4\text{-}4}$. (Bulgarian. English and Russian summaries) **89f:51094**
Loskiewicz, Genowefa Certain théorème du faisceau de quadriques. (Russian and Polish summaries) [A theorem on the pencil of quadrics] **89f:51095**
Orbán, B. A correlative birational transformation of order 3. **89m:51041**
Petrov, L. K. A central projection in $\mathbf{P}_3$ of a normcurve on a plane. (Bulgarian. English and Russian summaries) **89f:51096**
— *see also* **Apostolova, M. P., 89f:51093**
Stoev, G. S. *see* **Grigorov, Kh., 89f:51094**

Items with secondary classifications in 51N35

Bohne, Erhart (*with* Giertzsch, Heike) Trägerflächen isophotischer Flächenelemente aus Scharen gleicher Stellung bei Zentralbeleuchtung $(Q; v_4(\underline{r}, \underline{a}))$. [Support surfaces of isophotic area elements from linear systems with equal position under central illumination $(Q; v_4(\underline{r}, \underline{a}))$] **89k:53002**
Degoli, Lando The base varieties of linear systems of quadrics. (Italian. English summary) **89k:14006**

Giertzsch, Heike *see* **Bohne, Erhart, 89k:53002**
Rogozina, E. S. Congruence of the 4-secants of a norm-curve in P_7. (Russian) **89a:14069**
Syarova, A. B. Application of a set of cubic involutory Cremona transformations. (Bulgarian. English and Russian summaries) **89f:14008**
Vujaković, Dušan The geometric locus of the foci of a family of conics. (Russian. Serbo-Croatian summary) **89a:14070**

51N99 None of the above, but in this section

Items with secondary classifications in 51N99

Wilson, Paul R. *see* **Wiseman, James A., 89f:52024**
Wiseman, James A. (*with* Wilson, Paul R.) A Sylvester theorem for conic sections. **89f:52024**

52–XX Convex sets and related geometric topics

52–01 Elementary exposition; textbooks

Grygarová, Libuše *see* **Nožička, František; et al., 89k:52001**
Lommatzsch, Klaus *see* **Nožička, František; et al., 89k:52001**
Nožička, František (*with* Grygarová, Libuše; Lommatzsch, Klaus) ★ Geometrie konvexer Mengen und konvexe Analysis. (German) [Geometry of convex sets and convex analysis] **89k:52001**

Items with secondary classifications in 52–01

Fisher, J. Chris Curves of constant width from a linear viewpoint. **89d:52003**
O'Rourke, Joseph ★ Art gallery theorems and algorithms. **89f:68067**

52–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 52–02

Erdős, Paul Some combinatorial and metric problems in geometry. **89i:52012**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 89f:41001**
Grötschel, M. (*with* Lovász, L.; Schrijver, Alexander) ★ Geometric algorithms and combinatorial optimization. **89m:90135**
Lovász, L. *see* **Grötschel, M.; et al., 89m:90135**
Schrijver, Alexander *see* **Grötschel, M.; et al., 89m:90135**

Items listed otherwise than by author

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 14. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 14] **89f:41001**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 14. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 14] **89f:41001**

52–03 Historical (must also be assigned at least one classification number from Section 01)

Malkevitch, Joseph Milestones in the history of polyhedra. (*see* **89b:52016**)

Items with secondary classifications in 52–03

Hansen, Vagn Lundsgaard From geometry to topology. (Danish. English summary) **89h:01042**

52–04 Explicit machine computation and programs (not the theory of computation or programming)

Baker, Brenda S. (*with* Grosse, Eric; Rafferty, Conor S.) Nonobtuse triangulation of polygons. **89c:52001**
Grosse, Eric *see* **Baker, Brenda S.; et al., 89c:52001**
Rafferty, Conor S. *see* **Baker, Brenda S.; et al., 89c:52001**
Tanno, Shukichi An application of PC to space geometry. (Japanese) (Not in MR)

Items with secondary classifications in 52–04

Atkinson, Michael D. Selecting subsets of the correct density. **89a:68202**
Avis, David (*with* Wenger, Rephael) Polyhedral line transversals in space. **89i:68120**
Baltsan, Avikam (*with* Sharir, M.) On the shortest paths between two convex polyhedra. **89g:68065**
Bárány, I. (*with* Füredi, Z.) Computing the volume is difficult. **89a:68203**
Canny, John (*with* Donald, Bruce) Simplified Voronoi diagrams. **89c:68092**
Chazelle, Bernard (*with* Edelsbrunner, Herbert) Linear space data structures for two types of range search. **89a:68204**
Deneen, Linda (*with* Shute, Gary) Polygonizations of point sets in the plane. **89e:68113**
Donald, Bruce *see* **Canny, John, 89c:68092**
Edelsbrunner, Herbert ★ Algorithms in combinatorial geometry. **89a:68205**
— (*with* Preparata, F. P.) Minimum polygonal separation. **89f:68064**
— *see also* **Chazelle, Bernard, 89a:68204**
Erdmann, Michael (*with* Lozano-Pérez, Tomás) On multiple moving objects. **89h:68144**
Farinato, R. (*with* Loreto, L.) Geometric crystallography and computing in geometry. **89i:51001**
Farouki, R. T. Computational issues in solid boundary evaluation. **89a:65042**
Füredi, Z. *see* **Bárány, I., 89a:68203**
Gburzynski, Pawel (*with* Jaromczyk, Jurek W.) Comparison of two algorithms solving a version of the "ham-sandwich" problem. **89m:68133**
Guibas, Leonidas J. *see* **Hershberger, John, 89e:68114**
Hershberger, John (*with* Guibas, Leonidas J.) An $O(n^2)$ shortest path algorithm for a nonrotating convex body. **89e:68114**
von Hohenbalken, Balder An algorithm for set operations on nonconvex polygons (with an application to census tracts). **89j:68148**
(Hong, Jia Rong) *see* **Olariu, Stephan; et al., 89j:68149**
Huckenbeck, Ulrich ★ Geometrische Maschinenmodelle. (German) [Geometric models of machines] **89j:68038**
Hudson, J. L. (*with* Kingston, J. G.) Stellating polyhedra. **89e:52011**
Jaromczyk, Jurek W. *see* **Gburzynski, Pawel, 89m:68133**
Katajainen, Jyrki (*with* Koppinen, Markku) Constructing Delaunay triangulations by merging buckets in quadtree order. **89k:68067**
Kingston, J. G. *see* **Hudson, J. L., 89e:52011**
Koppinen, Markku *see* **Katajainen, Jyrki, 89k:68067**
Laumond, Jean-Paul Obstacle growing in a nonpolygonal world. **89a:68208**
Lee, Der Tsai *see* **de Rezende, P. J.; et al., 89k:90058**
Lenhart, W. (*with* Pollack, Richard; Sack, J.; Seidel, R.; Sharir, M.; Suri, Subhash; Toussaint, Godfried T.; Whitesides, S.; Yap, Chee-Keng) Computing the link center of a simple polygon. **89k:68145**
Lirov, Yuval *K*th shortest collision-free path planning. (Not in MR)
Loreto, L. *see* **Farinato, R., 89i:51001**
Lozano-Pérez, Tomás *see* **Erdmann, Michael, 89h:68144**
Megiddo, Nimrod On the complexity of polyhedral separability. **89f:68027**
Middleditch, Alan E. The representation and manipulation of convex polygons. (*see* **89a:68011**)
Olariu, Stephan (*with* Toida, S.; Zubair, M.) On a conjecture by D. A. Plaisted and J. R. Hong. Comment on: "A heuristic triangulation algorithm" [J. Algorithms **8** (1987), no. 3, 405–437; MR 88g:68104]. **89j:68149**
O'Rourke, Joseph Uniqueness of orthogonal connect-the-dots. (*see* **89k:68151**)
Ottmann, Thomas (*with* Soisalon-Soininen, Eljas; Wood, Derick) Partitioning and separating sets of orthogonal polygons. **89h:68148**
Piper, B. *see* **Worsey, A. J., 89m:65012**
(Plaisted, D. A.) *see* **Olariu, Stephan; et al., 89j:68149**
Pollack, Richard (*with* Sharir, M.; Sifrony, S.) Separating two simple polygons by a sequence of translations. **89a:68210**
— *see also* **Lenhart, W.; et al., 89k:68145**
Preparata, F. P. *see* **Edelsbrunner, Herbert, 89f:68064**
Rawlins, Gregory J. E. (*with* Widmayer, Peter; Wood, Derick) Hole problems for rectangles in the plane. **89f:68028**
de Rezende, P. J. (*with* Lee, Der Tsai; Wu, Y. F.) Rectilinear shortest paths in the presence of rectangular barriers. **89k:90058**
Sack, J. *see* **Lenhart, W.; et al., 89k:68145**
Seidel, R. *see* **Lenhart, W.; et al., 89k:68145**
Sharir, M. *see* **Pollack, Richard; et al., 89a:68210; Sifrony, S., 89f:68069; Baltsan, Avikam, 89g:68065; Wiernik, Ady, 89h:11088** *and* **Lenhart, W.; et al., 89k:68145**
Shute, Gary *see* **Deneen, Linda, 89e:68113**
Sifrony, S. (*with* Sharir, M.) A new efficient motion-planning algorithm for a rod in two-dimensional polygonal space. **89f:68069**
— *see also* **Pollack, Richard; et al., 89a:68210**
Soisalon-Soininen, Eljas *see* **Ottmann, Thomas; et al., 89h:68148**
Suri, Subhash *see* **Lenhart, W.; et al., 89k:68145**
Toida, S. *see* **Olariu, Stephan; et al., 89j:68149**
Toussaint, Godfried T. *see* **Lenhart, W.; et al., 89k:68145**
Wenger, Rephael *see* **Avis, David, 89i:68120**
Whitesides, S. *see* **Lenhart, W.; et al., 89k:68145**
Widmayer, Peter *see* **Rawlins, Gregory J. E.; et al., 89f:68028**
Wiernik, Ady (*with* Sharir, M.) Planar realizations of nonlinear Davenport-Schinzel sequences by segments. **89h:11088**
Wille, L. T. Close packing in curved space by simulated annealing. **89d:82005**
Wood, Derick (*with* Yap, Chee-Keng) The orthogonal convex skull problem. **89h:68151**
— *see also* **Rawlins, Gregory J. E.; et al., 89f:68028** *and* **Ottmann, Thomas; et al., 89h:68148**
Worsey, A. J. (*with* Piper, B.) A trivariate Powell-Sabin interpolant. **89m:65012**
Wu, Y. F. *see* **de Rezende, P. J.; et al., 89k:90058**
Yap, Chee-Keng *see* **Wood, Derick, 89h:68151** *and* **Lenhart, W.; et al., 89k:68145**
Zubair, M. *see* **Olariu, Stephan; et al., 89j:68149**

52–06 Proceedings, conferences, etc.

(Emmer, M.) *see* **Escher, 89k:52002**
(Escher, M. C.) *see* **Escher, 89k:52002**

Items listed otherwise than by author

Escher ★ Escher. **89k:52002**
Special Issue:
Escher, M. C. ★ Escher. **89k:52002**

Items with secondary classifications in 52–06

(Coxeter, H. S. M.) *see* **Escher: art and science, 89m:00011**
(Emmer, M.) *see* **Escher: art and science, 89m:00011**
(Escher, M. C.) *see* **Escher: art and science, 89m:00011**
(Fleck, George) *see* **Shaping space, 89b:52016**
(Penrose, Roger) *see* **Escher: art and science, 89m:00011**
(Senechal, Marjorie) *see* **Shaping space, 89b:52016**
(Teuber, Marianne) *see* **Escher: art and science, 89m:00011**

Items listed otherwise than by author

Conference:
Shaping space ★ Shaping space. **89b:52016**
Congress:
Escher, M. C. ★ M. C. Escher: art and science. **89m:00011**
Escher: art and science ★ M. C. Escher: art and science. **89m:00011**
Northampton, Mass. ★ Shaping space. **89b:52016**
Rome ★ M. C. Escher: art and science. **89m:00011**
Shaping space ★ Shaping space. **89b:52016**

52A01 Axiomatic and generalized convexity

Ben-Israel, Adi *see* **Ben-Tal, A., 89b:52001**
Ben-Tal, A. (*with* Ben-Israel, Adi) Ordered incidence geometry and the geometric foundations of convexity theory. **89b:52001**
Cīrulis, Jānis Convexity in betweenness spaces. (Russian) **89h:52001**
Dinh Thế Lục Convexity and closedness of sets with respect to cones. **89c:52002**
Hare, William R. (*with* Thompson, G. Gerald) Generalized Radon theorems in convex structures. **89e:52001**
Kaul, R. N. (*with* Lyall, Vinod; Kaur, Surjeet) Locally connected sets and functions. **89i:52001**
Kaur, Surjeet *see* **Kaul, R. N.; et al., 89i:52001**
Lassak, Marek (*with* Prószyński, Andrzej) Algebraic and geometric approach to the classification of semispaces. **89f:52001**
Lyall, Vinod *see* **Kaul, R. N.; et al., 89i:52001**
Prószyński, Andrzej *see* **Lassak, Marek, 89f:52001**
Thompson, G. Gerald *see* **Hare, William R., 89e:52001**

Items with secondary classifications in 52A01

Dawson, Robert J. MacG. Limits and colimits of convexity spaces. (French summary) **89g:18011**
Helbig, Siegfried On Carathéodory's and Kreĭn-Milman's theorems in fully ordered groups. **89g:46118**
Keimel, Klaus (*with* Wieczorek, Andrzej) Kakutani property of the polytopes implies Kakutani property of the whole space. **89f:47086**
Kołodziejczyk, K. Two constructional problems in aligned spaces. **89f:52019**
Pasicki, Lech On continuous selections. (Russian and Polish summaries) **89f:54039**
Qi, Li Qun Odd submodular functions, Dilworth functions and discrete convex functions. **89i:90046**
Suárez Ojeda, Eduardo Topological properties of Q-convex sets. (Spanish. English summary) **89e:52006**
Wieczorek, Andrzej *see* **Keimel, Klaus, 89f:47086**

52A05 Convex sets without dimension restrictions

Mkrtchyan, G. A. Hypercomplexly convex sets. (Russian) **89d:52001**
Shaidenko, A. V. "Almost" cone-preserving mappings. (Russian) **89f:52002**

Items with secondary classifications in 52A05

Beer, Gerald Support and distance functionals for convex sets. **89m:46031**
Bosznay, Ádám P. A property of spheres in normed linear spaces. **89e:46010**
– On the farthest point problem. **89e:46011**
– Counterexample to the farthest point conjecture in metric linear spaces. **89e:46012**
Gluskin, E. D. Probability in the geometry of Banach spaces. (Russian) **89h:46025**
Kuz′minykh, A. V. Mappings that almost preserve convexity. **89m:51022**
Michael, Ernest A. Continuous selections: a guide for avoiding obstacles. **89k:54047**
Phelps, R. R. Counterexamples concerning support theorems for convex sets in Hilbert space. **89c:46033**
Romanowicz, Z. Geometric structure of positive bases in linear spaces. **89h:46008**
Rosenthal, Haskell P. On the Choquet representation theorem. **89j:46012**
Wang, Chong Hu The existence of Klee subsets and a characterization of infinite dimension in a class of topological linear spaces. (Chinese) **89b:46009**

52A07 Convex sets in topological vector spaces [see also 46A55]

Beer, Gerald Continuity of the straight line path for convex sets. **89c:52003**
Lupşa, Liana I-points with respect to a given set. **89c:52004**
Roy, Nina M. Extreme points of convex sets in infinite-dimensional spaces. **89a:52001**

Items with secondary classifications in 52A07

Argyros, Spiros A. (*with* Odell, Edward; Rosenthal, Haskell P.) On certain convex subsets of c_0. **89k:46030**
Casadio Tarabusi, Enrico Convex maps in L^p spaces. (Italian summary) **89f:46100**
Eifler, Larry Compactly generated cones. **89a:52009**
Lin, Bor-Luh (*with* Lin, Pei-Kee; Troyanski, S. L.) Characterizations of denting points. **89e:46016**
Lin, Pei-Kee *see* **Lin, Bor-Luh; et al., 89e:46016**
Mkrtchyan, G. A. Calculation of cohomology groups for some classes of hypercomplex-convex compacta. (Russian) **89k:55004**
Odell, Edward *see* **Argyros, Spiros A.; et al., 89k:46030**
Rosenthal, Haskell P. On the structure of nondentable closed bounded convex sets. **89g:46041**
– (*with* Wessel, Alan) The Kreĭn-Mil′man property and a martingale coordinatization of certain nondentable convex sets. **89k:46026**
– *see also* **Argyros, Spiros A.; et al., 89k:46030**
Shih, Mou Hsiang (*with* Tan, Kok-Keong) A geometric property of convex sets with applications to minimax type inequalities and fixed point theorems. **89i:52018**
Tan, Kok-Keong *see* **Shih, Mou Hsiang, 89i:52018**
Tonev, T. V. Minimal affine boundaries of convex sets. **89f:46020**
Troyanski, S. L. *see* **Lin, Bor-Luh; et al., 89e:46016**
Wang, Chong Hu The existence of Klee subsets and a characterization of infinite dimension in a class of topological linear spaces. (Chinese) **89b:46009**
Wessel, Alan *see* **Rosenthal, Haskell P., 89k:46026**

52A10 Convex sets in 2 dimensions

Aumann, Günter Inequalities for curves of constant breadth. **89d:52002**
Bisztriczky, Tibor (*with* Pach, János) An upper bound for families of linearly related plane convex sets. **89a:52002**
Dubuc, Serge (*with* Elqortobi, Abdelkader) Enveloppe convexe d'une courbe de Mandelbrot. (English summary) [The convex hull of a Mandelbrot curve] **89a:52003**
Edelsbrunner, Herbert (*with* Skiena, Steven S.) Probing convex polygons with X-rays. **89i:52002**
Elqortobi, Abdelkader *see* **Dubuc, Serge, 89a:52003**
Fejes Tóth, G. (*with* Kemnitz, A.) Characterization of centrally symmetric convex domains in planes of constant curvature. **89a:52004**
Fisher, J. Chris Curves of constant width from a linear viewpoint. **89d:52003**
Fudali, Stanisław Six-point primitive fixing system in a plane. **89b:52002**
Innami, Nobuhiro Convex curves whose points are vertices of billiard triangles. **89d:52004**
Kemnitz, A. *see* **Fejes Tóth, G., 89a:52004**
Kiselman, Christer O. Smoothness of vector sums of plane convex sets. (Esperanto summary) **89a:52005**
Mägerl, G. (*with* Volčič, A.) On the well-posedness of the Hammer X-ray problem. (Italian summary) **89a:52006**
Michelacci, G. A negative answer to the equichordal problem for not too small excentricities. (Italian summary) **89f:52003**
Pach, János *see* **Bisztriczky, Tibor, 89a:52002**
Skiena, Steven S. *see* **Edelsbrunner, Herbert, 89i:52002**
Vincze, István On systems of circles surrounding a circle. **89d:52005**
Volčič, A. *see* **Mägerl, G., 89a:52006**
Zamfirescu, Tudor An infinitesimal version of the Besicovitch-Danzer characterization of the circle. **89i:52003**
Zuccheri, L. Approximation of convex bodies from chord functions. **89h:52002**
Zucco, Andreana Minimal annulus of a convex body. **89m:52001**

Items with secondary classifications in 52A10

Amiran, Edoh Caustics and evolutes for convex planar domains. **89j:58064**
Chakerian, Don (*with* Logothetti, Dave) Minimal regular polygons serving as universal covers in $\mathbf{R}^2$. **89f:52035**
Englisch, H. (*with* Voight, Heinz) The inpolygon with minimal area and the circumpolygon with maximal perimeter. **89f:52026**
Groemer, H. Stability theorems for convex domains of constant width. **89f:52027**
Handschug, M. On equivalent quasidifferentials in the two-dimensional case. **89j:90221**
Li, Hui Optimal algorithms for determining the movability of convex polygons. **89k:68146**
Logothetti, Dave *see* **Chakerian, Don, 89f:52035**
O'Rourke, Joseph ★ Art gallery theorems and algorithms. **89f:68067**
Ottmann, Thomas (*with* Soisalon-Soininen, Eljas; Wood, Derick) Partitioning and separating sets of orthogonal polygons. **89h:68148**
Perel′man, G. Ya. Polyhedral saddle surfaces. (Russian) **89k:53057**
Reimann, Heiko Eine Abschätzung für den Flächeninhalt von Eichbereichen Banach-Minkowskischer Ebenen. [An estimate for the surface area of gauge ranges in Banach-Minkowski planes] **89d:52027**
Santoro, Nicola (*with* Sidney, Jeffrey B.; Sidney, Stuart J.; Urrutia, Jorge) Geometric containment and vector dominance. **89f:68068**
Scott, P. R. Centre of gravity and circumcentre of a convex body in the plane. **89m:52017**
Sidney, Jeffrey B. *see* **Santoro, Nicola; et al., 89f:68068**
Sidney, Stuart J. *see* **Santoro, Nicola; et al., 89f:68068**
Soisalon-Soininen, Eljas *see* **Ottmann, Thomas; et al., 89h:68148**
Urrutia, Jorge *see* **Santoro, Nicola; et al., 89f:68068**
Vinárek, Jiří A note on Fiedler-Morávek combinatorial problem. **89d:52025**
Voight, Heinz *see* **Englisch, H., 89f:52026**
Wood, Derick *see* **Ottmann, Thomas; et al., 89h:68148**

52A15 Convex sets in 3 dimensions

Campi, Stefano Recovering a centred convex body from the areas of its shadows: a stability estimate. **89m:52002**
Kharazishvili, A. B. Some properties of Jordan curves. (Russian. English and Georgian summaries) **89i:52004**
Novak, V. I. On the structure of minimal convex bodies. **89f:52004**

Items with secondary classifications in 52A15

Artykbaev, A. A full angle around the vertex of a cone in a Galilei space. **89m:51037**
Romero Fuster, M. C. Convexly generic curves in $\mathbf{R}^3$. **89k:53001**

52A20 Convex sets in n dimensions

Ball, Keith Logarithmically concave functions and sections of convex sets in $\mathbf{R}^n$. **89e:52002**
Batson, Robert G. Necessary and sufficient conditions for boundedness of extreme points of unbounded convex sets. **89d:52006**
Baum, Dieter Bemerkungen zur Halbachsenfunktion. (English summary) [Comments on the semi-axis function] **89d:52007**
Bisztriczky, Tibor Affinely embeddable convex bodies. **89e:52003**
Bourgain, J. Remarques sur les zonoïdes (projection bodies, etc.). [Remarks on zonoids (projection bodies, etc.)] **89f:52005**
— (*with* Lindenstrauss, Joram) Nouveaux résultats sur les zonoïdes et les corps de projection. (English summary) [New results on zonoids and projection bodies] **89e:52004**
Darmakheev, V. P. Relaxationsmethode zur Berechnung eines Punktes aus dem Durchschnitt der Projektionen von konvexen abgeschlossenen Mengen. [Relaxation method for computing a point from the intersection of projections of convex closed sets] **89a:52007**

Dol′nikov, V. L. A remark on the separability of sets by a hyperplane. (Russian) **89a:52008**
Eifler, Larry Compactly generated cones. **89a:52009**
Faro Rivas, Ricardo ★ Aproximación de cuerpos convexos simétricos. (Spanish) [Approximation of symmetric convex bodies] **89c:52005**
Goodman, Jacob E. (*with* Pollack, Richard) Hadwiger's transversal theorem in higher dimensions. **89d:52008**
Groemer, H. Stability theorems for projections of convex sets. **89k:52003**
Gruber, Peter M. Volume approximation of convex bodies by inscribed polytopes. **89h:52003**
Heil, Erhard Wieviel Affinnormalen gehen durch einen Punkt? (English summary) [How many affine normals pass through one point?] **89f:52006**
Jacak, Dorota Regular positive bases. **89m:52003**
Kovalev, M. D. A property of convex sets and its application. **89j:52001**
Leichtweiß, K. Über einige Eigenschaften der Affinoberfläche beliebiger konvexer Körper. [On some properties of the affine surface of arbitrary convex bodies] **89j:52002**
Lindenstrauss, Joram *see* **Bourgain, J., 89e:52004**
Lutwak, Erwin Mixed affine surface area. **89d:52009**
Makeev, V. V. Six-partite partitions of a three-dimensional space. **89k:52004**
Martinelli, Stefano (*with* Struppa, Daniele) On the average distance of convex symmetric bodies in $\mathbf{R}^n$ from the origin. (Italian. English summary) **89b:52003**
Martínez-Legaz, Juan-Enrique (*with* Singer, Ivan) The structure of hemispaces in $\mathbf{R}^n$. **89i:52005**
McKinney, James R. *see* **Petty, C. M., 89f:52007**
Mei, Jia Liu Generalized convex sets. (Chinese. English summary) **89j:52003**
Milman, Vitali D. A few observations on the connections between local theory and some other fields. **89h:52004**
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Stahl, Jürgen *see* **Griggs, Jerrold R.; et al., 89g:06004**
Švarc, Rudolf Some combinatorial results about the operators with jumping nonlinearities. **89b:58010**
Tan, Ze Guang A proof of the finite basis theorem for polyhedra. (Chinese. English summary) **89k:90182**
Tölke, Maria Möglichkeiten der Verbesserung des räumlichen Vorstellungsvermögens durch kombinatorische Betrachtungen. [Chances of improving the capacity for spatial imagination by combinatorial considerations] **89m:51034**
Weiss, Asia Ivić Incidence-polytopes with toroidal cells. **89k:51029**
Whiteley, Walter Problems on the realizability and rigidity of polyhedra. (*see* **89b:52016**)
— *see also* **Ash, Peter; et al.,** (**89b:52016**)
Wilker, J. B. *see* **Dekster, B. V., 89f:52025**
Wills, J. M. *see* **Schwörbel, J., 89k:51028**
Zeng, Zhen Bing The average distance constant of the skeletons of regular polygons and polyhedra. (Chinese) **89f:51066**

52A30 Invariants of convex sets (star-shaped, (m, n)-convex, etc.)

Breen, Marilyn Some Krasnosel′skiĭ numbers for finitely starlike sets in the plane. **89i:52010**
— k-partitions and a characterization for compact unions of k starshaped sets. **89e:52017**
Cieślak, Waldemar Crofton-type integral formulas for star domain. **89k:52010**
Stavrakas, N. Clear visibility and L_2 sets. **89j:52006**
Toranzos, Fausto A. Critical visibility and outward rays. **89h:52007**
Zamfirescu, Tudor Typical starshaped sets. **89m:52008**

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Breen, Marilyn j-partitions for visible shorelines. **89j:52007**
— A weak Krasnosel′skiĭ theorem in $\mathbf{R}^d$. **89i:52011**
Chan, Jean B. A Krasnosel′skiĭ-type theorem involving p-arcs. **89e:52018**
Hackman, Steven T. (*with* Passy, Ury) Projectively-convex sets and functions. **89f:90019**
Kołodziejczyk, K. On starshapedness of the union of closed sets in $\mathbf{R}^n$. **89b:52017**
Passy, Ury *see* **Hackman, Steven T., 89f:90019**

52A35 Helly-type theorems

Bárány, I. (*with* Kincses, J.) A characterization of the Helly dimension of convex bodies. **89d:52019**
Breen, Marilyn j-partitions for visible shorelines. **89j:52007**
— A weak Krasnosel′skiĭ theorem in $\mathbf{R}^d$. **89i:52011**
Chan, Jean B. A Krasnosel′skiĭ-type theorem involving p-arcs. **89e:52018**
Dol′nikov, V. L. A property of a graph of diameters in $\mathbf{R}^3$. (Russian) **89d:52020**
Horváth, M. Notes on a convexity. **89a:52026**
Kincses, J. *see* **Bárány, I., 89d:52019**
Kołodziejczyk, K. On starshapedness of the union of closed sets in $\mathbf{R}^n$. **89b:52017**
— Two constructional problems in aligned spaces. **89f:52019**
Wieacker, J. A. Helly-type decomposition theorems for convex sets. **89d:52021**

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Breen, Marilyn Some Krasnosel′skiĭ numbers for finitely starlike sets in the plane. **89i:52010**
— k-partitions and a characterization for compact unions of k starshaped sets. **89e:52017**
Dol′nikov, V. L. Generalized transversals of families of sets in $\mathbf{R}^n$ and the connections between the Helly theorem and the Borsuk theorem. **89b:52021**
Goodman, Jacob E. (*with* Pollack, Richard) Hadwiger's transversal theorem in higher dimensions. **89d:52008**
Pach, János *see* **Bisztriczky, Tibor, 89a:52002**
Pollack, Richard *see* **Goodman, Jacob E., 89d:52008**
Stavrakas, N. Clear visibility and L_2 sets. **89j:52006**
Toranzos, Fausto A. Critical visibility and outward rays. **89h:52007**
Živaljević, Rade Combinatorial geometry and topology. (Serbo-Croatian) **89m:52014**

52A37 Other problems of combinatorial geometry

Aurenhammer, F. Linear combinations from power domains. **89k:52011**
Bárány, I. (*with* Füredi, Z.) Empty simplices in Euclidean space. **89g:52004**
Bell, David I. *see* **Noll, Landon Curt, 89j:52008**
Bezdek, A. (*with* Bezdek, K.) Enclosing a set by sets. **89f:52020**
Bezdek, K. *see* **Bezdek, A., 89f:52020**
Björner, Anders (*with* Kalai, Gil) An extended Euler-Poincaré theorem. **89m:52009**
Danzer, L. Zur Lösung des Gallaischen Problems über Kreisscheiben in der Euklidischen Ebene. (English summary) [On the solution of the Gallai problem on circular disks in the Euclidean plane] **89d:52022**
Deza, M. (*with* Singhi, N. M.) Rigid pentagons in hypercubes. **89e:52019**
Dress, Andreas (*with* Franz, Reinhard) Zu einer Frage von Herrn S. Bilinski Pflasterungen von Brezelflächen betreffend. (English and Serbo-Croatian summaries) [On a problem of S. Bilinski concerning pavings of pretzel surfaces] **89h:52008**
Ehrenfeucht, Andrzej (*with* Foreman, M.; Malitz, J.) Taxonometric partitions. **89b:52018**
Emamy-K., M. R. On the covering cuts of c^d $(d \leq 5)$. **89a:52027**
Erdős, Paul Some combinatorial and metric problems in geometry. **89i:52012**
— *see also* **Salamon, Peter, 89f:52022**
Foreman, M. *see* **Ehrenfeucht, Andrzej; et al., 89b:52018**
Franz, Reinhard *see* **Dress, Andreas, 89h:52008**
Fricke, Arnold Anzahlfragen zur Diagonalenkonfiguration im n-Eck. [Questions of number on the configuration of diagonals in the n-gon] **89m:52010**
Füredi, Z. *see* **Bárány, I., 89g:52004**
Hà Lê Anh On two problems of Katona concerning sums of vectors. **89m:52011**
Harborth, Heiko Regular point sets with unit distances. **89d:52023**
Kalai, Gil *see* **Björner, Anders, 89m:52009**
Katchalski, M. (*with* Meir, A.) On empty triangles determined by points in the plane. **89f:52021**
Lin, Xiao-Biao Another brief proof of the Sylvester theorem. **89m:52012**
Malitz, J. *see* **Ehrenfeucht, Andrzej; et al., 89b:52018**
Meir, A. *see* **Katchalski, M., 89f:52021**
Noll, Landon Curt (*with* Bell, David I.) n-clusters for $1 < n < 7$. **89j:52008**
Palásti, Ilona On the seven points problem of P. Erdős. **89d:52024**
Purdy, George Repeated angles in E_4. **89a:52028**
Róka, Sándor On a theorem on regular polygons. (Hungarian) **89i:52013**
Salamon, Peter (*with* Erdős, Paul) The solution to a problem of Grünbaum. **89f:52022**
Schramm, Oded Illuminating sets of constant width. **89m:52013**
Singhi, N. M. *see* **Deza, M., 89e:52019**
Vesztergombi, K. Bounds on the number of small distances in a finite planar set. **89e:52020**
Vinárek, Jiří A note on Fiedler-Morávek combinatorial problem. **89d:52025**
Wastun, C. G. Universal covers of finite sets. **89f:52023**
Whiteley, Walter Applications of the geometry of rigid structures. **89a:52029**
— Problems on the realizability and rigidity of polyhedra. (*see* **89b:52016**)
Wilson, Paul R. *see* **Wiseman, James A., 89f:52024**
Wiseman, James A. (*with* Wilson, Paul R.) A Sylvester theorem for conic sections. **89f:52024**
Živaljević, Rade Combinatorial geometry and topology. (Serbo-Croatian) **89m:52014**

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Brehm, Ulrich Maximally symmetric polyhedral realizations of Dyck's regular map. **89b:52011**
— A maximally symmetric polyhedron of genus 3 with 10 vertices. **89b:52012**
Damphousse, Pierre Fondement de la description combinatoire des cartes cellulaires. (English summary) [Foundations of the combinatorial description of cellular maps] **89d:57003**
Ding, Ren *see* **Murphy, Grattan, 89k:51002**
Dress, Andreas The 37 combinatorial types of regular "Heaven and Hell" patterns in the Euclidean plane. (*see* **89m:00011**)
Faro Rivas, Ricardo ★ Aproximación de cuerpos convexos simétricos. (Spanish) [Approximation of symmetric convex bodies] **89c:52005**
Grünbaum, B. (*with* Shephard, G. C.) Isonemal fabrics. **89g:05039**
— (*with* Shephard, G. C.) Les charpentes de plaques rigides. [Rigid plate frameworks] **89f:51084**
Hárs, L. The Tammes problem for $n = 10$. **89b:52022**
Kühnel, Wolfgang Minimal triangulations of Kummer varieties. **89a:57028**
Makeev, V. V. Six-partite partitions of a three-dimensional space. **89k:52004**
McConnell, Mark The rational homology of toric varieties is not a combinatorial invariant. **89i:14042**
Milman, Vitali D. A few observations on the connections between local theory and some other fields. **89h:52004**
Müller, Carsten Equidecomposability of polyhedra with reference to crystallographic groups. **89e:52015**
Murphy, Grattan (*with* Ding, Ren) Grünbaum's gap conjecture. **89k:51002**
Odinets, V. P. On a Rohlin hypothesis. (Russian and Polish summaries) **89c:55002**
Pellegrino, S. On the rigidity of triangulated hyperbolic paraboloids. **89j:70003**
Roudneff, Jean-Pierre (*with* Sturmfels, Bernd) Simplicial cells in arrangements and mutations of oriented matroids. **89h:51037**
Sazhenyuk, F. G. Finite nets on the Euclidean plane. (Russian. English and Georgian summaries) **89i:51006**
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Sokirka, A. I. Separability of the vertices of a triangulated graph by complementary d-convex half spaces. (Russian) **89d:05166**
Sturmfels, Bernd *see* **Roudneff, Jean-Pierre, 89h:51037**
Tarnai, Tibor Les mécanismes finis et la charpente octogonale de la cathédrale d'Ely. [Finite mechanisms and the timber octagon of Ely cathedral] **89f:51086**
Vincze, István On systems of circles surrounding a circle. **89d:52005**
Whiteley, Walter A matroid on hypergraphs, with applications in scene analysis and geometry. **89k:05027**

52A40 Inequalities and extremum problems

Babenko, I. K. Asymptotic volume of tori and the geometry of convex bodies. **89m:52015**
Ball, Keith Some remarks on the geometry of convex sets. **89h:52009**
Bárány, I. On the minimal ring containing the boundary of a convex body. **89i:52014**
— (*with* Füredi, Z.) Approximation of the sphere by polytopes having few vertices. **89a:52030**
Barthel, Woldemar (*with* Pabel, Helmut) Das isodiametrische Problem der Minkowski-Geometrie. [The isodiametric problem in Minkowski geometry] **89d:52026**
Blind, G. Optimale Zerlegungen eines konvexen Bereichs in konvexe Bereiche. [Optimal divisions of a convex domain into convex domains] **89a:52031**
Böhm, Johannes Zum isoperimetrischen Problem bei Simplexen in r-dimensionalen Räumen konstanter Krümmung. [On the isoperimetric problem for simplices in r-dimensional spaces of constant curvature] **89a:52032**
Buldygin, V. V. (*with* Kharazishvili, A. B.) ★ Неравенство Брунна-Минковского и его приложения. (Russian) [The Brunn-Minkowski inequality and its applications] **89b:52019**
Burago, Yu. D. (*with* Zalgaller, V. A.) ★ Geometric inequalities. **89b:52020**
Dekster, B. V. (*with* Wilker, J. B.) On almost regular simplexes. **89f:52025**
Dol'nikov, V. L. Generalized transversals of families of sets in $\mathbf{R}^n$ and the connections between the Helly theorem and the Borsuk theorem. **89b:52021**
Englisch, H. (*with* Voight, Heinz) The inpolygon with minimal area and the circumpolygon with maximal perimeter. **89f:52026**
Fuglede, Bent Stability in the isoperimetric problem for convex or nearly spherical domains in $\mathbf{R}^n$. **89m:52016**
Füredi, Z. *see* **Bárány, I., 89a:52030**
Gardner, Richard J. Relative width measures and the plank problem. **89j:52009**
Gordon, Yehoram (*with* Meyer, Mathieu; Reisner, Shlomo) Zonoids with minimal volume-product—a new proof. **89i:52015**
Gritzmann, Peter A characterization of all loglinear inequalities for three quermassintegrals of convex bodies. **89i:52016**
Groemer, H. Stability theorems for convex domains of constant width. **89f:52027**
— On the Brunn-Minkowski theorem. **89k:52012**
— On the volume of equichordal sets. **89f:52028**
Gysin, Liliana M. Inequalities for the product of the volumes of a partition determined in a convex body by a surface. **89f:52029**
Haimovich, M. (*with* Magnanti, T. L.) Extremum properties of hexagonal partitioning and the uniform distribution in Euclidean location. **89e:52021**
Hajela, D. On a conjecture of Kömlos about signed sums of vectors inside the sphere. **89i:52017**
Hárs, L. The Tammes problem for $n = 10$. **89b:52022**
Heil, Erhard Extensions of an inequality of Bonnesen to D-dimensional space and curvature conditions for convex bodies. **89g:52005**
Jiang, Xing Yao Inequalities for vertex angles of higher-dimensional simplexes. (Chinese) **89f:52030**
Katz, Mikhail Diameter-extremal subsets of spheres. **89k:52013**
Kharazishvili, A. B. *see* **Buldygin, V. V., 89b:52019**
Kotlyar, B. D. Packing densities of bounded sets. (Russian. English and Georgian summaries) **89b:52023**
Magnanti, T. L. *see* **Haimovich, M., 89e:52021**
Major, Z. Sur le minimum de la somme des puissances des distances. [On the minimum of the sum of powers of distances] **89e:52022**
Meyer, Mathieu A volume inequality concerning sections of convex sets. **89e:52023**
— (*with* Pajor, A.) Sections of the unit ball of L_p^n. **89h:52010**
— *see also* **Gordon, Yehoram; et al., 89i:52015**
Milman, Vitali D. Isomorphic symmetrizations and geometric inequalities. **89h:52011**
— Entropy point of view on some geometric inequalities. (French summary) **89f:52031**
Osserman, Robert A strong form of the isoperimetric inequality in $\mathbf{R}^n$. **89c:52012**
Pabel, Helmut *see* **Barthel, Woldemar, 89d:52026**
Pajor, A. *see* **Meyer, Mathieu, 89h:52010**
Pfiefer, Richard E. Surface area inequalities for ellipsoids using Minkowski sums. **89j:52010**
Reimann, Heiko Eine Abschätzung für den Flächeninhalt von Eichbereichen Banach-Minkowskischer Ebenen. [An estimate for the surface area of gauge ranges in Banach-Minkowski planes] **89d:52027**
Reisner, Shlomo *see* **Gordon, Yehoram; et al., 89i:52015**
Roos, C. On the volume of an n-dimensional simplex. **89g:52006**
Sangwine-Yager, J. R. A Bonnesen-style inradius inequality in 3-space. **89f:52032**
— Bonnesen-style inequalities for Minkowski relative geometry. **89g:52007**
Schneider, Jürgen Zum isodiametrischen Problem im hyperbolischen Raum. (English summary) [On the isodiametric problem in hyperbolic space] **89e:52024**
Schneider, Rolf On the Aleksandrov-Fenchel inequality involving zonoids. **89k:52014**
Scott, P. R. Centre of gravity and circumcentre of a convex body in the plane. **89m:52017**
Semenkova, E. V. *see* **Zaĭtsev, G. Yu., (89c:00006)**
Sheremet, O. B. *see* **Zaĭtsev, G. Yu., (89c:00006)**
Shih, Mou Hsiang (*with* Tan, Kok-Keong) A geometric property of convex sets with applications to minimax type inequalities and fixed point theorems. **89i:52018**
(Sosinskii, A. B.) *see* **Burago, Yu. D., 89b:52020**
Tamvakis, N. K. On the perimeter and the area of the convex polygons of a given diameter. **89g:52008**
Tan, Kok-Keong *see* **Shih, Mou Hsiang, 89i:52018**
Uhrin, B. Extensions and sharpenings of Brunn-Minkowski and Bonnesen inequalities. **89d:52028**
Voight, Heinz *see* **Englisch, H., 89f:52026**
Wilker, J. B. *see* **Dekster, B. V., 89f:52025**
Yang, Lu (*with* Zhang, Jing Zhong) Metric sum and Alexander symmetrization. (Chinese) **89h:52012**
Zaĭtsev, G. Yu. (*with* Semenkova, E. V.) An integral estimate for the deviations of two sets in a plane in sections by unit circles. (Russian) (*see* **89c:00006**)
— (*with* Sheremet, O. B.) An integral estimate for the deviations of two sets in sections by hyperplanes that pass through a fixed point. (Russian) (*see* **89c:00006**)
Zalgaller, V. A. *see* **Burago, Yu. D., 89b:52020**
Zhang, Jing Zhong *see* **Yang, Lu, 89h:52012**
Zhou, Jia Nong An inequality involving the distances between points on a sphere. (Chinese) (Not in MR)

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Abi-Khuzam, Faruk A new geometric inequality. **89f:51068**
Arslanagić, Š. Z. Some improvements for triangle inequalities. (Serbo-Croatian summary) **89h:51027**
Bezdek, A. (*with* Bezdek, K.) On the centroids of convex solids of revolution. **89d:51030**
Bezdek, K. (*with* Connelly, R.; Kertész, G.) On the average number of neighbors in a spherical packing of congruent circles. **89a:52034**
— *see also* **Bezdek, A., 89d:51030**
Bleicher, Michael N. Isoperimetric division into a finite number of cells in the plane. **89a:52036**
Bourgain, J. Remarques sur les zonoïdes (projection bodies, etc.). [Remarks on zonoids (projection bodies, etc.)] **89f:52005**
Connelly, R. *see* **Bezdek, K.; et al., 89a:52034**
Corach, G. (*with* McGowan, J.; Porta, Horacio) Some inequalities for the triangle. **89k:51022**
Dol'nikov, V. L. The Jung constant in l_1^n. (Russian) **89g:46028**
Faro Rivas, Ricardo ★ Aproximación de cuerpos convexos simétricos. (Spanish) [Approximation of symmetric convex bodies] **89c:52005**
Felcyn, Paweł Liminal number of a convex body with a smooth boundary. **89m:52020**
Fudali, Stanisław Two remarks about homothetic coverings. **89m:52021**
Funar, L. L. A minimax problem in geometry. (Romanian) **89m:52022**
Gáspár, Zs. *see* **Tarnai, Tibor, 89d:52031**
Gerla, Giangiacomo (*with* Volpe, Raffaele) The definition of distance and diameter in fuzzy set theory. (Romanian summary) **89a:03106**
Goberna, M. A. (*with* López, Marco Antonio) Reduction and discrete approximation in linear semi-infinite programming. **89f:90081**
Gritzmann, Peter (*with* Wills, J. M.) An upper estimate for the lattice point enumerator. **89f:11088**
Gromov, Mikhael L. (*with* Milman, Vitali D.) Generalization of the spherical isoperimetric inequality to uniformly convex Banach spaces. **89f:46031**
Gruber, Peter M. Volume approximation of convex bodies by inscribed polytopes. **89h:52003**
Kertész, G. *see* **Bezdek, K.; et al., 89a:52034**
Klee, Victor (*with* Kleinschmidt, Peter) The d-step conjecture and its relatives. **89a:52018**
Kleinschmidt, Peter *see* **Klee, Victor, 89a:52018**
Kodani, Shigeru On two-dimensional isosystolic inequalities. **89d:53089**
Kuperberg, W. Covering the plane with congruent copies of a convex body. **89m:52024**
Leichtweiß, K. Über einige Eigenschaften der Affinoberfläche beliebiger konvexer Körper. [On some properties of the affine surface of arbitrary convex bodies] **89j:52002**
Linhart, Johann Extremaleigenschaften der regulären 3-Zonotope. [Extremal properties of regular 3-zonotopes] **89f:52015**
Lipatova, A. E. Sharpening of an estimate for the complexity of realization of a system of all conjunctions of length n by switching circuits. **89d:94054**
López, Marco Antonio *see* **Goberna, M. A., 89f:90081**
Lutwak, Erwin Rotation means of projections. **89a:52011**
— Mixed affine surface area. **89d:52009**
Mao, Qi Ji *see* **Zuo, Quan Ru**, (Not in MR)
McGowan, J. *see* **Corach, G.; et al., 89k:51022**
Milman, Vitali D. *see* **Gromov, Mikhael L., 89f:46031**
Milošević, D. M. Some inequalities for a triangle. (Serbo-Croatian summary) **89f:51073**
Muder, Douglas J. Putting the best face on a Voronoĭ polyhedron. **89e:52029**
Nenakhov, È. I. A method of centers of gravity of simplexes. (Russian) **89d:90134**
Porta, Horacio *see* **Corach, G.; et al., 89k:51022**
Schneider, Rolf Affine-invariant approximation by convex polytopes. **89b:52004**
Schramm, Oded Illuminating sets of constant width. **89m:52013**
Sterna-Karwat, A. A note on cone-maximal and extreme points in topological vector spaces. **89b:49010**
Tanno, Shukichi An application of PC to space geometry. (Japanese) (Not in MR)
Tarnai, Tibor (*with* Gáspár, Zs.) Multisymmetric close packings of equal spheres on the spherical surface. **89d:52031**
Volpe, Raffaele *see* **Gerla, Giangiacomo, 89a:03106**
Wills, J. M. *see* **Gritzmann, Peter, 89f:11088**
Zucco, Andreana Minimal annulus of a convex body. **89m:52001**
Zuo, Quan Ru (*with* Mao, Qi Ji) A note on pseudosymmetric sets. (Chinese) (Not in MR)

52A43 Lattices and convex bodies [see also 11H06]

Andrade, Doherty The Pick formula. (Portuguese) **89i:52019**
Ding, Ren (*with* Reay, John) Areas of lattice polygons, applied to computer graphics. **89f:52033**
— (*with* Kołodziejczyk, K.; Reay, John) A new Pick-type theorem on the hexagonal lattice. **89a:52033**
Haase, R. W. (*with* Kramer, L.; Kramer, Peter; Lalvani, H.) Polyhedra of three quasilattices associated with the icosahedral group. **89b:52024**

Kannan, Ravindran (*with* Lovász, L.) Covering minima and lattice-point-free convex bodies. **89i:52020**
Kołodziejczyk, K. *see* **Ding, Ren; et al., 89a:52033**
Kramer, L. *see* **Haase, R. W.; et al., 89b:52024**
Kramer, Peter *see* **Haase, R. W.; et al., 89b:52024**
Lalvani, H. *see* **Haase, R. W.; et al., 89b:52024**
Lovász, L. *see* **Kannan, Ravindran, 89i:52020**
Mendelsohn, N. S. Packing a square lattice with a rectangle-free set of points. **89h:52013**
Mögling, Werner Zur Gitterpunktüberdeckung durch reguläre n-ecke mit ungerader Eckenzahl. [On lattice-point covering by regular n-gons with odd number of vertices] **89e:52025**
Reay, John *see* **Ding, Ren; et al., 89a:52033** *and* **89f:52033**

Items with secondary classifications in 52A43

(Bambah, R. P.) *see* **Fejes Tóth, G., 89m:11063**
(Bannai, Eiichi) *see* **Conway, J. H., 89a:11067**
de Bruijn, N. G. Modulated quasicrystals. **89a:51031**
Chang, S. J. *see* **Lin, K'ê Ying, 89i:05022**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **89a:11067**
Csóka, G. There exists a basis of minimal vectors in every $n \leq 7$-dimensional perfect lattice. **89b:11057**
Dolbilin, N. P. A characteristic of lattices and the inhomogeneous Minkowski problem. (Russian) **89b:11058**
Ewald, Günter An embedding theorem for smooth projective toric varieties. **89j:14027**
Fejes Tóth, G. Note to a paper of [R. P.] Bambah, [C. A.] Rogers and [H.] Zassenhaus: "On coverings with convex domains" [Acta Arith. **9** (1964), 191–207; MR **29** #3959]. **89m:11063**
Fellows, Michael R. *see* **Kleitman, D. J., 89k:05003**
Gritzmann, Peter (*with* Wills, J. M.) An upper estimate for the lattice point enumerator. **89f:11088**
Groemer, H. On the Brunn-Minkowski theorem. **89k:52012**
Handelman, David E. ★ Positive polynomials, convex integral polytopes, and a random walk problem. **89b:06014**
Heijmans, H. J. A. M. Mathematical morphology: an algebraic approach. **89h:92085**
Horváth, Jenő Über das $(r,R)_k$-System von Unterräumen in E^n. [On the $(r,R)_k$-system of subspaces in E^n] **89a:52038**
Il'in, I. V. A remark on an estimate in the inhomogeneous Minkowski conjecture for small dimensions. (Russian) **89k:11052**
Ishida, Masa-Nori Convex bodies and algebraic geometry—toric varieties and applications. II. **89m:14027**
Janner, A. Crystallography of quasicrystals. **89m:20055**
Kleitman, D. J. (*with* Fellows, Michael R.) Radius and diameter in Manhattan lattices. **89k:05003**
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52A99 Miscellaneous topics

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53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

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Simon, Udo Conjectures and open problems. **89g:53001**
Terrier, J.-M. Differentiable manifolds, Lie groups and connections. **89i:53001**
Vishnevskiĭ, V. V. (*with* Shirokov, A. P.; Shurygin, V. V.) ★ Пространства над алгебрами. (Russian) [Spaces over algebras] **89m:53002**

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Barthel, Woldemar Strukturelle Betrachtungen zur affinen Differentialgeometrie. [Structural considerations on affine differential geometry] **89k:53006**
Burago, Yu. D. (*with* Zalgaller, V. A.) ★ Geometric inequalities. **89b:52020**
Dillen, Franki (*with* Verstraelen, L.) Real and complex locally symmetric affine hypersurfaces. **89k:53008**
Göckeler, M. (*with* Schücker, T.) ★ Differential geometry, gauge theories, and gravity. **89d:53124**
Rassias, Themistocles M. Survey on uniqueness and classification theorems for minimal surfaces. **89d:53020**
Schücker, T. *see* **Göckeler, M., 89d:53124**
(Sosinskiĭ, A. B.) *see* **Burago, Yu. D., 89b:52020**
Vasil′ev, A. M. ★ Теория дифференциально-геометрических структур. (Russian) [Theory of differential-geometric structures] **89m:58001**
Verstraelen, L. *see* **Dillen, Franki, 89k:53008**
Zalgaller, V. A. *see* **Burago, Yu. D., 89b:52020**

53–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 53–03

Arutyunyan, S. Kh. (*with* Grushko, P. Ya.; Evtushik, L. E.; Lumiste, Ülo) Differential-algebraic methods for geometric investigations in the work of A. M. Vasil′ev and his scientific school. (Russian) **89k:01029**
Berger, Marcel L'œuvre d'André Lichnerowicz en géométrie riemannienne. [The work of André Lichnerowicz in Riemannian geometry] **89i:01060**
(Christoffel, E. B.) *see* **Leichtweiß, K., 89h:01036**
Dahan-Dalmédico, Amy Mécanique et théorie des surfaces: les travaux de Sophie Germain. (English and German summaries) [Mechanics and the theory of surfaces: the works of Sophie Germain] **89a:01030**
Evtushik, L. E. *see* **Arutyunyan, S. Kh.; et al., 89k:01029**
(Germain, Sophie) *see* **Dahan-Dalmédico, Amy, 89a:01030**
Grushko, P. Ya. *see* **Arutyunyan, S. Kh.; et al., 89k:01029**
Leichtweiß, K. E. B. Christoffels Einfluß auf die Geometrie. [E. B. Christoffel's influence on geometry] **89h:01036**
(Lichnerowicz, André) *see* **Berger, Marcel, 89i:01060** *and* **Marle, Charles-Michel, 89m:0110**
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Lumiste, Ülo *see* **Arutyunyan, S. Kh.; et al., 89k:01029**
Marle, Charles-Michel L'œuvre d'André Lichnerowicz en géométrie symplectique. [The work of André Lichnerowicz in symplectic geometry] **89m:01100**
Penrose, Roger Hermann Weyl, space-time and conformal geometry. (*see* **89a:01046**)
Sachs, J. M. A curious mixture of maps, dates, and names. **89d:01017**
Tamássy, L. The present state of the differential geometric school founded by Otto Varga. (Hungarian) **89g:01065**
(Varga, Otto) *see* **Tamássy, L., 89g:01065**
(Vasil′ev, A. M.) *see* **Arutyunyan, S. Kh.; et al., 89k:01029**
(Weyl, Hermann) *see* **Penrose, Roger, (89a:01046)**
Xu, Yi Fu Tensor analysis and the general theory of relativity. (Chinese) **89f:83002**

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53–04 Explicit machine computation and programs (not the theory of computation or programming)

Watanabe, Yasuo Structural features of three-dimensional images. (*see* **89g:82013**)

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Banchoff, T. F. Visualizing two-dimensional phenomena in four-dimensional space: a computer graphics approach. **89a:58001**
Rodionov, A. Ya. (*with* Taranov, A. Yu.) Computation of covariant derivatives of the geodetic interval with coincident arguments. **89a:53088**
Taranov, A. Yu. *see* **Rodionov, A. Ya., 89a:53088**

53–06 Proceedings, conferences, etc.

(Abbasov, N. T.) *see* **Studies in geometry, 89a:53004**
(Andrzejczak, Grzegorz) *see* **Differential geometry, 89d:53001**
(Atanasiu, Gheorghe) *see* **Proceedings: Seminar on Finsler and Lagrange Spaces, 89b:53004**
(Ermakov, Yu. I.) *see* **Differential geometry, 89j:53001**
(Furlan, G.) *see* **Spinors in physics and geometry, 89j:53002**
(Gokhman, A. V.) *see* **Differential geometry, 89a:53001**
(Kulkarni, Ravi) *see* **Conformal geometry, 89g:53002**
(Ostianu, N. M.) *see* **Problems of geometry, 89a:53003**
(Pinkall, U.) *see* **Conformal geometry, 89g:53002**
(Pitiş, Gh.) *see* **Proceedings: Seminar on Finsler and Lagrange Spaces, 89b:53004**
(Shelekhov, A. M.) *see* **Webs and quasigroups, 89a:53005**
(Simon, Udo) *see* **Affine differential geometry, 89e:53001**
(Stephanidis, N. K.) *see* **Proceedings: Congress of geometry, 89b:53003**
(Stoica, E.) *see* **Proceedings: Seminar on Finsler and Lagrange Spaces, 89b:53004**
(Trautman, Andrzej) *see* **Spinors in physics and geometry, 89j:53002**
(Verner, A. L.) *see* **Investigations in the theory of surfaces in manifolds with curvature of constant sign, 89a:53002**
(Walczak, P. G.) *see* **Differential geometry, 89d:53001**
(Waliszewski, W.) *see* **Differential geometry, 89d:53001**

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  Geometry ★ Proceedings of the congress of geometry. (German) **89b:53003**
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Bongaarts, P. J. M.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**
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Dodson, C. T. J.) *see* **Geometrization of statistical theory, 89g:62010**
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Werner, M.) *see* **Differential geometrical methods in theoretical physics, 89j:00012**

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Como ★ Differential geometrical methods in theoretical physics. **89j:00012**
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Differential geometrical methods in theoretical physics ★ Differential geometrical methods in theoretical physics. **89j:00012**
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Géométrie différentielle ★ Géométrie différentielle. (French) [Differential geometry] **89c:00035**
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Lancaster ★ Geometrization of statistical theory. **89g:62010**
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Paris ★ Géométrie différentielle. (French) [Differential geometry] **89c:00035**
Scheveningen ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
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  Differential Geometrical Methods in Theoretical Physics ★ Differential geometrical methods in theoretical physics. **89j:00012**
  Geometrization of Statistical Theory ★ Geometrization of statistical theory. **89g:62010**

53Axx Classical differential geometry

53A04 Curves in Euclidean space

Aminov, Yu. A. ★ Дифференциальная геометрия и топология кривых. (Russian) [Differential geometry and the topology of curves] **89c:53001**
– Closed curves that are trigonometric polynomials in the arc length. (Russian) **89d:53002**
de Carvalho, F. J. Craveiro (*with* Robertson, S. A.) Equichordal curves. **89h:53002**
Dong, Kui Zhe A generalization of the Steiner center of curvature problem for an oval. (Chinese. English summary) **89m:53003**
Farris, Frank Classifying curves in space and space-time. **89a:53006**
Giering, Oswald Über die Sehnentorsen der Raumkurven. (English summary) [On the bisecants of developable ruled surfaces of space curves] **89f:53002**
Grayson, Matthew A. The heat equation shrinks embedded plane curves to round points. **89b:53005**
– The shape of a figure-eight under the curve shortening flow. **89m:53004**
Heppes, A. A lower bound for the incircle of a domain. **89i:53002**
Kallay, Michael Plane curves of minimal energy. **89c:53002**
Kishimoto, Kazuo^2 On a distance between two curves. (*see* **89g:82013**)
Kuiper, Nicolaas H. (*with* Meeks, W. H., III) The total curvature of a knotted torus. **89c:53003**
Mainik, I. F. Approximation of integral curvatures of curves in $\mathbf{R}^n$ and S^n. (Russian) **89e:53002**
Manning, Gerald S. *see* **Nickerson, H. K., 89h:53003**
Marris, A. W. The Bianchi identities in an explicit form. **89d:53003**
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Pottmann, Helmut Über Zindler-Kurven in euklidischen Räumen. (English summary) [On Zindler curves in Euclidean spaces] **89a:53008**
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Bélteky, K. *see* **Tamássy, L., 89e:53039**
Brauner, Heinrich Die Drehflächen mit Böschungsschmieglinien. [The surfaces of revolution with osculating lines of constant slope] **89i:53003**
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Epstein, C. L. (*with* Gage, Michael) The curve shortening flow. **89f:58128**
Gage, Michael *see* **Epstein, C. L., 89f:58128**
Mendes, Claudio Martins (*with* Ruas, Maria Aparecida Soares) Hyperbolic motions of conics. **89c:53012**
Ozawa, Tetsuya On the numbers of *n*-tangencies of polygons in odd-dimensional Euclidean spaces. **89k:57017**
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Ruas, Maria Aparecida Soares *see* **Mendes, Claudio Martins, 89c:53012**
Sasai, Takao Geometry of analytic space curves with singularities and regular singularities of differential equations. **89m:58009**
Tamássy, L. (*with* Bélteky, K.) On the coincidence of two kinds of ellipses in Riemannian and in Finsler spaces. **89e:53039**

53A05 Surfaces in Euclidean space

Aminov, Yu. A. Surfaces in E^4 with sign-constant Gaussian torsion. (Russian) **89m:53005**
Amur, Krishna (*with* Venkataramana, R. S.) On pseudo-surfaces of revolution and geometric meaning of a differential equation. **89d:53005**
Barner, Martin Eine differentialgeometrische Kennzeichnung der allgemeinen Dupinschen Zykliden. [A differential-geometric characterization of the general Dupin cyclides] **89a:53009**
Bohne, Erhart (*with* Giertzsch, Heike) Trägerflächen isophotischer Flächenelemente aus Scharen gleicher Stellung bei Zentralbeleuchtung $(Q; v_4(\underline{r}, \underline{a}))$. [Support surfaces of isophotic area elements from linear systems with equal position under central illumination $(Q; v_4(\underline{r}, \underline{a}))$] **89k:53002**
Boja, Nicolae On the curvatures of the foils parallel with the middle surface of thin shells related to its curvature lines. (Romanian summary) **89c:53004**
Brauner, Heinrich Die Drehflächen mit Böschungsschmieglinien. [The surfaces of revolution with osculating lines of constant slope] **89i:53003**
Chen, Bang-Yen Null 2-type surfaces in E^3 are circular cylinders. **89g:53003**
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Fomicheva, Yu. G. A theorem on the existence in E^3 of a surface with given negative Gaussian curvature and with a bijective spherical mapping onto an open half sphere. (Russian) **89h:53005**
Giertzsch, Heike *see* **Bohne, Erhart, 89k:53002**
Hong, Chong Wei A note on prescribed Gaussian curvature on S^2. **89j:53004**
Hong, Jia Xing Surface in $\mathbf{R}^3$ with prescribed Gauss curvature. **89b:53007**
Kaĭdasov, Zh. (*with* Shikin, E. V.) Isometric immersion in E^3 of expanding strips on manifolds of type Л. (Russian) **89h:53006**
Koch, Richard Kennzeichnung spezieller Flächenstreifen Γ_c mittels ausgezeichneter Paare von *c*-Regelflächen. [Characterization of special surface strips Γ_c by means of distinguished pairs of *c*-ruled surfaces] **89f:53003**
Kovantsov, N. I. Structure of a surface of negative curvature in a neighborhood of a singular point. (Ukrainian. Russian summary) **89d:53006**
Kozlowski, Michael Affine maximal surfaces. **89m:53006**
Kudrik, P. Ĭ. Application of *p*-hyperbolic systems of differential equations in the theory of the deformation of surfaces. (Ukrainian. Russian summary) **89d:53007**
Kulik, N. A. *see* **Zrazhevs′ka, G. M., 89d:53012**
Kutev, N. *see* **Popivanov, P., 89i:53005**
Maksimova, T. Yu. Enveloping families of asymptotics. (Russian) **89h:53007**
Manhart, Friedrich Über uneigentliche Relativsphären in Schraubflächen. [On improper relative spheres in helical surfaces] **89f:53004**
Mikhaĭlovs′kiĭ, V. Ĭ. Infinitesimal bendings of surfaces of negative curvature that are fixed along the boundary with respect to two points. (Ukrainian. Russian summary) **89d:53008**
Mozharskiĭ, V. V. A cuspidal edge of asymptotic type of an analytic surface of nonpositive curvature. (Ukrainian. Russian summary) **89g:53004**
Nakamura, Gen Local isometric embedding of two-dimensional Riemannian manifolds into $\mathbf{R}^3$ with nonpositive Gaussian curvature. **89b:53008**
Özkan, M. Asım (*with* Soyuçok, Ziya) Transformations preserving the asymptotic and Darboux directions of a surface and their effects on the infinitesimal bending. (Turkish summary) **89d:53009**
Pelipenko, V. V. A geometric interpretation of solutions of stationary waves type of the sine-Gordon equation. (Russian) **89c:53005**

Popivanov, P. (*with* Kutev, N.) On the solvability of equations with prescribed Gauss curvature changing its sign. **89i:53005**
Porteous, I. R. Ridges and umbilics of surfaces. **89d:53010**
Reshetnyak, Yu. G. On the theory of surfaces of bounded integral mean curvature. (Russian) **89b:53009**
Rotondaro, Giovanni An integral formula for closed surfaces and a generalization of Hp-theorem. **89i:53006**
Shikin, E. V. *see* **Kaidasov, Zh., 89h:53006**
Sotomayor, J. Closed lines of curvature for Weingarten immersions. **89h:53008**
Soyuçok, Ziya *see* **Özkan, M. Asım, 89d:53009**
Strommer, J. Über das Verhalten einer krummen Fläche in der Nähe eines parabolischen Punktes. [On the behavior of a curved surface near a parabolic point] **89a:53010**
Takeuchi, Nobuko A surface which contains planar geodesics. **89h:53009**
Venkataramana, R. S. *see* **Amur, Krishna, 89d:53005**
Wegner, Bernd Cylinders of constant width. **89d:53011**
Xie, Bu Ying The relation between the radii of curvature of a surface curve and its image when the normal to the surface is parallel to the plane of projection. (Chinese. English summary) **89m:53007**
Ziv, M. Unification of some elementary concepts from differential geometry. **89m:53008**
Zrazhevs′ka, G. M. (*with* Kulik, N. A.) Special continuous bendings of closed surfaces of revolution of sign-variable curvature. (Ukrainian. Russian summary) **89d:53012**

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Barros, Manuel *see* **Chen, Bang-Yen; et al., 89b:53092**
Chen, Bang-Yen (*with* Barros, Manuel; Garay, Oscar J.) Spherical finite type hypersurfaces. **89b:53092**
(Christoffel, E. B.) *see* **Leichtweiß, K., 89h:01036**
Garay, Oscar J. *see* **Chen, Bang-Yen; et al., 89b:53092**
Gutiérrez, Carlos (*with* Sotomayor, J.) Closed principal lines and bifurcation. **89g:58044**
Hagen, Hans (*with* Schulze, Guido) Automatic smoothing with geometric surface patches. **89f:65019**
Herold, Horst Konforme Abbildung der Wendelfläche. [Conformal mapping of the helicoid] **89h:53044**
Klabukova, L. S. A variational-difference method for solving problems of infinitesimal bendings of surfaces of positive curvature. (Russian) **89h:65212**
Leichtweiß, K. E. B. Christoffels Einfluß auf die Geometrie. [E. B. Christoffel's influence on geometry] **89h:01036**
Manning, Gerald S. *see* **Nickerson, H. K., 89h:53003**
Meinicke, Eberhard Zur Erzeugung isophotischer Streifen längs einer Geraden bei mehreren Zentralbeleuchtungen. I, II. [On the generation of isophotic strips along a line, using multiple central illuminations. I, II] **89f:51088**
Miersemann, Erich Asymptotic expansion at a corner for the capillary problem. **89m:35081**
Nickerson, H. K. (*with* Manning, Gerald S.) Intrinsic equations for a relaxed elastic line on an oriented surface. **89h:53003**
Schulze, Guido *see* **Hagen, Hans, 89f:65019**
Sharmin, V. G. Spherical mappings of a spatial strip. (Russian) **89f:53008**
Sotomayor, J. *see* **Gutiérrez, Carlos, 89g:58044**

53A07 Higher-dimension and -codimension surfaces in Euclidean n-space

Abe, Kinetsu (*with* Blair, D. E.) Ruled hypersurfaces of Euclidean space. **89d:53013**
Aleksandrov, N. D. (*with* Aleksandrova, E. V.) Some investigations concerning two-dimensional and three-dimensional surfaces in a four-dimensional space. (Russian) (*see* **89f:00017**)
Aleksandrova, E. V. *see* **Aleksandrov, N. D., (89f:00017)**
Aliev, N. Ya. Some cases of mappings of surfaces of Euclidean spaces. (Russian) **89j:53005**
Amur, Krishna (*with* Venkataramana, R. S.) Irrotational Euclidean vectorfields on hypersurfaces of a Euclidean space. **89f:53005**
Blair, D. E. *see* **Abe, Kinetsu, 89d:53013**
Efros, P. P. Submanifolds of codimension three. (Russian) **89h:53010**
Gdoyan, M. A. Pseudoconformal and almost conformal mappings of a three-dimensional sphere into E_3. (Russian) **89d:53014**
Glova, N. I. (*with* Usubalieva, A. S.) On curvature theory of framing distributions Δ_2 in E_4. (Russian) **89k:53003**
Gritsans, A. S. p-surfaces in E_n with a general family of mean normals. (Russian) **89h:53011**
Huang, Xuan Guo Embedded hypersurfaces in S^{n+1} with prescribed mean curvature. (Chinese) **89b:53010**
Huisken, Gerhard The volume preserving mean curvature flow. **89d:53015**
Jensen, Gary R. (*with* Rigoli, Marco) Correction to: "Harmonically immersed surfaces in $\mathbf{R}^n$" [Trans. Amer. Math. Soc. **307** (1988), no. 1, 363–372; MR 89g:53006]. **89m:53009**
Kryachkov, Yu. G. Two-dimensional spherically one-sheeted surfaces in E^n. (Russian) **89f:53006**
Kuchma, L. V. An analogue of a problem of Minkowski for a two-dimensional surface in the four-dimensional Euclidean space E^4. (Russian) **89e:53004**
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Labourie, François Une relation entre diamètre extrinsèque, intégrale de la courbure de Gauss et inradius pour les hypersurfaces localement convexes d'un espace euclidien. [A relation connecting extrinsic diameter, Gauss curvature integral and inradius for locally convex hypersurfaces of a Euclidean space] **89d:53016**
Lima, Elon L. The Jordan-Brouwer separation theorem for smooth hypersurfaces. **89i:53007**
Rigoli, Marco *see* **Jensen, Gary R., 89m:53009**
Schumann, W. (*with* Tatasciore, Ph.) The use of projectors in some problems of applied mechanics and optics. (German and Russian summaries) **89d:53017**
Sergienko, L. N. The geodesical "straightest" lines of a nonlinear nonholonomic manifold in E_4. (Russian) **89b:53011**
Sharmin, V. G. Spherical mappings of a spatial strip. (Russian) **89f:53008**
Silaev, E. V. A mapping of a smooth p-surface in a Euclidean space. (Russian) **89h:53012**
Silaeva, G. M. A pair of hypersurfaces with degenerate affinor. (Russian) **89h:53013**
Smyth, Brian (*with* Xavier, Frederico) Efimov's theorem in dimension greater than two. **89h:53014**
Tatasciore, Ph. *see* **Schumann, W., 89d:53017**
Teodorescu, I. D. Rotation manifolds in a Euclidean space. (Romanian) **89m:53010**
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Tukanaev, T. Noncompact hypersurfaces in E^{n+1} with a given sum of principal radii of curvature, given as a function of the normal. (Russian) **89h:53016**
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Karp, Leon (*with* Pinsky, Mark) Volume of a small extrinsic ball in a submanifold. **89i:53038**
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53A10 Minimal surfaces, surfaces with prescribed mean curvature [see also 49F10, 53C42]

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53A15 Affine differential geometry

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Srovnal, Josef Two-parametric systems of three-dimensional spaces in a unimodular six-dimensional affine space. (Russian and Czech summaries) **89b:53017**

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Voss, Konrad Einige Eindeutigkeitssätze in der affinen Differentialgeometrie. [Some uniqueness theorems in affine differential geometry] **89g:53013**

Wagner, Marianne Über die Winternitz-Begleitbasis einer Kurve im n-dimensionalen affinen Raum. (English summary) [On the Winternitz base of a curve in n-dimensional affine space] **89g:53014**

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— Some theorems on convex hypersurfaces in an affine space. **89j:53012**

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Affine Differentialgeometrie ★ Affine Differentialgeometrie. **89e:53001**

Conference:

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Oberwolfach ★ Affine Differentialgeometrie. **89e:53001**

53A17 Kinematics

Colley, Susan Jane Correction: "The tumbling box" [Amer. Math. Monthly **94** (1987), no. 62–68; MR 88b:53010]. **89b:53018**

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Karger, Adolf (*with* Troják, Jan) Affine Darboux motions with vector part one-parametric subgroup. (Russian and Czech summaries) **89a:53016**

— Geometry of the motion of robot manipulators. **89k:53010**

Manley, P. L. On dynamics of moving points. (Arabic summary) **89e:53010**

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Röschel, Otto Duale Bricard-Bewegungen. [Dual Bricard motions] **89m:53022**

Schaal, Hermann Die Drehzylinder durch vier Punkte. [The cylinders of revolution passin through four points] **89h:53038**

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Stachel, H. Ein bewegliches Tetraederpaar. [A movable pair of tetrahedra] **89i:51029**

53A20 Projective differential geometry

Abbasov, N. T. Projective spaces over an algebra of biquasialternions. (Russian) **89f:53013**

Akivis, M. A. On multidimensional strongly parabolic surfaces. (Russian) **89g:53016**

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53A60 Geometry of webs [see also 14C21, 20N05]

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— The tangent W_4-algebra of a multidimensional three-web. (Russian) **89f:53027**
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tkin, A. A. Osculating cubic spheres of a surface of the space N^3. (Russian) **89f:53023**

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Shirokov, A. P. A type of space of constant curvature over an algebra of dual numbers. (Russian) (*see* **89a:53001**)

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Ostianu, N. M. (*with* Balazyuk, T. N.) Mapping of the manifold $T^2(M_n)$ onto an associated manifold of projective-differential structure. (Russian) **89f:53015**

Zhang, Jin Hao On continuity of the Kobayashi differential metric. (Chinese. English summary) **89i:32051**

53B15 Other connections

Abe, Naoto Geometry of certain first order differential operators and its applications to general connections. **89i:53017**

Atanasiu, Gheorghe The existence of the distinguished semisymmetrical and quarter-symmetrical connections on the total space of a vector bundle. **89a:53023**

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Klepp, Francisc C. (*with* Atanasiu, Gheorghe) About the generalized Lagrange-Weyl-Otsuki spaces. (Romanian summary) **89d:53037**

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— On some Riemannian manifolds admitting a metric semi-symmetric connection. **89k:53024**

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Pandey, H. B. (*with* Chand, Mahesh) On metric semisymmetric connexion. **89e:53025**

Pan′zhenskiĭ, V. I. Investigation of locally conic manifolds by means of osculating Riemannian metrics. (Russian) **89a:53024**

Pušić, Nevena Some further properties of total and Ricci curvature in the self-recurrent Weyl-Otsuki space of the second kind. (Serbo-Croatian summary) **89g:53023**

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Enghiş, P. (*with* Moţ, G.) Particular semi-symmetric connections. **89k:53022**

Lauritzen, Steffen L. Conjugate connections in statistical theory. **89j:62009**

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Correa Rodriguez, Jairo Some Ricci-zero infinitesimal deformations of the standard Euclidean metric. (Russian) **89i:53018**
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53B21 Methods of Riemannian geometry

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Yamauchi, Kazunari On infinitesimal projective transformations and infinitesimal conformal transformations in tangent bundles of Riemannian manifolds. **89d:53041**

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Hanzon, B. A differential-geometric approach to approximate nonlinear filtering. **89j:6007**
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53B25 Local submanifolds [see also 53C40]

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Lumiste, Ũlo Reducibility of submanifolds with parallel third fundamental form. (Russian **89c:53019**
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Verstraelen, L. A survey of relations between intrinsic and extrinsic properties for hypersurfaces. **89d:53042**
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Chen, Bang-Yen Null 2-type surfaces in E^3 are circular cylinders. **89g:53003**
Deprez, J. (*with* Dillen, Franki; Petrović-Torgašev, M.; Verstraelen, L.) On Weyl's projective curvature tensor of Kaehlerian hypersurfaces. **89k:53028**
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Rai, R. P. Submanifold of co-dimension 2 of an almost hyperbolic Hermite manifold. **89b:53042**
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Abe, Naoto (*with* Koike, Naoyuki; Yamaguchi, Seiichi) Congruence theorems for proper semi-Riemannian hypersurfaces in a real space form. **89a:53029**
Arteaga, Kh. R. (*with* Norden, A. P.) Mathematical principles for the classification of energy states. **89d:53043**
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Hall, G. S. The classification of second order symmetric tensors in general relativity theory. **89g:53046**

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3B40 Finsler spaces and generalizations (areal metrics)

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53C65 Integral geometry [see also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]

Anikonov, D. S. Examples of the nonuniqueness of the solution of a problem of integral geometry. **89h:53129**

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Borisov, Adriyan V. Invariant densities in the three-dimensional pseudo-Euclidean space. (Bulgarian summary) **89g:53106**

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Gómez, J. (*with* Varela, F.) Sur certaines expressions globales d'une forme volume. [On some global expressions of a volume form] **89c:53058**

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Kireitov, V. R. ★ К теории уравнений распространения средней пространственной освещенности. (Russian) [On the theory of the equations of propagation of mean spatial illumination] **89a:53082**

Lizogub, P. P. The measure, invariant with respect to the general Lorentz group, of a set of hyperplanes in a four-dimensional Minkowski space. (Russian) **89e:53104**

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Mukhometov, R. G. ★ Оценки устойчивости решений задач интегральной геометрии в случае нерегулярных семейств кривых. (Russian) [Estimates for the stability of solutions of problems of integral geometry in the case of nonregular families of curves] **89j:53058**

— Problems of integral geometry in which families of curves have caustics. (Russian) **89k:53065**

— Problems of integral geometry in a domain with a reflecting part of the boundary. **89a:53083**

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Baikoussis, Ch. *see* **Koufogiorgos, Th.**, **89b:53097**

Boman, Jan (*with* Quinto, Eric Todd) Support theorems for real-analytic Radon transforms. **89m:44004**

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Gindikin, S. G. Manifolds of rational curves and nonlinear equations. **89m:32051**

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Ki, U-Hang (*with* Ayabe, Shuka; Yamaguchi, Seiichi) On conformal Killing and special Killing p-forms in Riemannian manifolds with boundary. **89j:53045**

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Koufogiorgos, Th. (*with* Baikoussis, Ch.) Integral inequalities for ovaloids in Euclidean space. **89b:53097**

Labourie, François Une relation entre diamètre extrinsèque, intégrale de la courbure de Gauss et inradius pour les hypersurfaces localement convexes d'un espace euclidien. [A relation connecting extrinsic diameter, Gauss curvature integral and inradius for locally convex hypersurfaces of a Euclidean space] **89d:53016**

Le Hong Van New examples of Γ-M surfaces. (Russian) **89d:58030**

Nersesyan, V. A. Admissible complexes of k-dimensional planes in $\mathbf{P}^n$. (Russian. Armenian summary) **89e:53013**

Panina, G. Yu. Translation-invariant measures of planes that intersect convex bodies. **89j:52004**

Pelletier, Fernand Intégrale de la forme pfaffienne d'une connexion duale g-métrique. (English summary) [Integral of the Pfaffian form of a dual g-metric connection] **89d:53087**

— Indice de singularité, formule de Gauss-Bonnet pour des pseudo-métriques à lieu singulier quasi homogène et relation de Riemann-Hurwitz pour des applications singulières. (English summary) [A singularity index, Gauss-Bonnet formula for pseudometrics with quasihomogeneous singular set and Riemann-Hurwitz relation for singular maps] **89g:57045**

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53C75 Geometric orders, order geometry [see also 51Lxx]

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Spoar, Gary Curves of minimal order. **89a:51041**

— A generalized four-vertex theorem. **89i:51018**

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— (*with* Foussats, A.; Zandron, O.) Diffeomorphically nonequivalent classes of solutions in gauge theories on group manifolds. **89m:53128**

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Asanov, G. S. (*with* Ponomarenko, S. P.; Roy, Sisir) Finslerian multi-dimensionality, associated gauge fields, and stochastic space-time. **89j:53059**

Atiyah, Michael (*with* Hitchin, Nigel) ★ The geometry and dynamics of magnetic monopoles. **89k:53067**

Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. I. **89d:53120**

– (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. II. **89d:53121**

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Cahen, Michel (*with* Gutt, S.; Lemaire, L.; Spindel, Ph.) Killing spinors. **89d:53122**

Canarutto, D. An introduction to the geometry of singularities in general relativity. **89m:53130**

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– (*with* Marmo, G.) Einstein algebras and the algebraic Kaluza-Klein monopole. **89f:53106**

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4Axx Generalities

4A05 Topological spaces and generalizations (closure spaces, etc.)

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54A10 Change of topology, comparison of topologies

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54A15 Syntopogeneous structures

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54A20 Convergence (general theory) and limits

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54A25 Cardinality properties (discrete subsets, weight, etc.), ultrafilters, etc. [see also 03Exx, 04A30]

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— *see also* **Rao, I. H. N., 89c:54091; Naidu, S. V. R., 89f:54086** *and* **Sastry, K. P. R.; et al., 89i:54056**
Ray, Barada K. A fixed point theorem in a Hausdorff space. **89f:54094**
— On common fixed points in metric spaces. **89j:54055**
Rhoades, B. E. Contractive definitions. **89c:54093**
— Contractive definitions and continuity. **89g:54107**
— *see also* **Park, Sehie, 89d:54038; 89d:54039; 89k:54109** *and* **Sessa, Salvatore; et al., 89k:54111**
Romaguera, Salvador *see* **Checa, Emilio, 89k:54103**
Rus, Ioan A. Technique of the fixed point structures. **89m:54059**
— *see also* **Seminar: Fixed Point Theory, 89g:54111**
Sai Prasad, B. *see* **Anki Reddy, K. C., 89k:54102**
Sakai, Masami On supertightness and function spaces. **89k:54110**
Samanta, A. (*with* Baisnab, A. P.) Fixed point theorems for set valued mappings. **89e:54098**
Samanta, S. K. Fixed point theorems for Kannan maps in a metric space with some convexity structure. **89i:54055**
Sanjurjo, José M. R. Stability of the fixed point property and universal maps. **89e:54099**
Sastry, K. P. R. (*with* Naidu, S. V. R.; Rao, I. H. N.; Rao, K. P. R.) Fixed-point theorems for pairs of self maps. **89i:54056**
Scaravelli, C. *see* **Azzimondi, P., 89m:54056**
Sessa, Salvatore (*with* Fisher, Brian) Common fixed points of weakly commuting mappings. (Russian summary) **89a:54059**
— (*with* Rhoades, B. E.; Khan, Mohd. Saeed) On common fixed points of compatible mappings in metric and Banach spaces. **89k:54111**
— *see also* **Fisher, Brian, 89c:54085; 89e:54088; 89e:54089; Imdad, M.; et al., 89f:54083** *and* **89k:54105**
Simion, Gh. On a fixed-point theorem. (Romanian. English summary) **89f:54095**
Singh, Bijendra *see* **Bhagwat, Neeta, 89d:54031**
Singh, S. L. (*with* Narayan, K. A.) Coincidence theorems on 2-metric spaces. **89a:54060**
Singh, Sankatha Prasad *see* **Carbone, A., 89b:54050**
Som, Tanmoy (*with* Mukherjee, Rathindra Nath^1) Addendum: "Solution of simultaneous equations in Hausdorff space and a common fixed point theorem" [Bull. Calcutta Math. Soc. 76 (1984), no. 4, 231–235; MR 87f:54062]. **89e:54100**
— (*with* Mukherjee, Rathindra Nath^1) An extension of a fixed point theorem of Achari. **89g:54108**
Stojaković, Mila Coincidence point theorems for multivalued mappings in Menger spaces. **89f:54096**
— On some classes of contraction mappings. **89f:54097**
Tiwary, Kalishankar (*with* Lahiri, B. K.) Fixed and periodic points under set-valued mappings. **89k:54112**
Vasuki, R. A fixed point theorem for a sequence of mappings. **89i:54057**
Yie, Sangsuk A generalizaton of fixed point theorems. **89g:54109**
Zabreĭko, P. P. (*with* Makarevich, T. A.) The fixed point principle and a theorem of L. V. Ovsyannikov. (Russian) **89g:54110**
Zeng, Wen Zhi Probabilistic 2-metric spaces. (Chinese) **89b:54053**
Zhong, Ji Chun A fixed point theorem for contractive mappings of type (16). (Chinese. English summary) **89b:54054**

Items listed otherwise than by author

Seminar:
Fixed point theory ★ Seminar on fixed point theory. **89g:54111**

Items with secondary classifications in 54H25

Alpern, Steve Area-preserving homeomorphisms of the open disk without fixed points. **89e:55003**
Assad, Nadim A. On some nonself mappings in Banach spaces. **89i:47105**
Babu, A. C. (*with* Panda, B. B.) Extensions of some fixed point theorems of Rhoades, Ćirić, Maiti and Pal. **89f:47083**

Baillon, Jean-Bernard Nonexpansive mapping and hyperconvex spaces. **89k:54068**
Baskaran, R. (*with* Subrahmanyam, P. V.) Common fixed points in closed balls. **89k:47088**
Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**
Bhakta, P. C. (*with* Choudhury, Sumitra Roy) Some existence theorems for functional equations arising in dynamic programming. II. **89h:90248**
Burton, T. A. (*with* Dwiggins, D. P.) An asymptotic fixed point theorem for a locally convex space. **89g:47075**
Butenin, N. V. (*with* Neĭmark, Yu. I.; Fufaev, N. A.) ★ Введение в теорию нелинейных колебаний. (Russian) [Introduction to the theory of nonlinear oscillations] **89c:34001**
Čerin, Z. (*with* Watanabe, Tadashi) Borsuk fixed point theorem for multivalued maps. **89c:55004**
Chen, Zhi Qiang Continuous selections of set-valued mappings and fixed point theorems. (Chinese) **89k:54046**
Choudhury, Sumitra Roy *see* **Bhakta, P. C., 89h:90248**
Dawidowicz, Andrzej Spherical maps. **89c:54037**
Dhage, B. C. On abstract measure integro-differential equations. **89e:45009**
Dwiggins, D. P. *see* **Burton, T. A., 89g:47075**
Eufrásio Filho, Heronides Simplicial algorithms and topology. (Portuguese. English summary) **89f:57031**
Fathi, Albert An orbit closing proof of Brouwer's lemma on translation arcs. **89d:55004**
Fournier, Gilles (*with* Violette, Donald) A fixed point theorem for a class of multivalued continuously differentiable maps. **89f:47084**
Franks, John Generalizations of the Poincaré-Birkhoff theorem. **89m:54052**
Fufaev, N. A. *see* **Butenin, N. V.; et al., 89c:34001**
Garity, Dennis J. (*with* Rohm, Dale M.) Stable maps into the Hilbert cube. **89k:57038**
Gill, John Limit periodic iteration. **89f:54061**
Grabiec, Mariusz Fixed points in fuzzy metric spaces. **89j:54007**
Guo, Da Jun (*with* Sun, Jing Xian) Some global generalizations of the Birkhoff-Kellogg theorem and applications. **89b:47083**
Hagopian, Charles L. Fixed points of arc-component-preserving maps. **89d:54022**
Husain, Taqdir (*with* Latif, Abdul) Fixed points of multivalued nonexpansive maps. **89i:47107**
Idzik, Adam Almost fixed point theorems. **89i:47108**
Jiang, Jia He Fixed point theorems for convex sets. **89m:47050**
Kim, Won Kyu *see* **Park, Sehie, 89a:47081**
Komiya, Hidetoshi Elementary proof for Sion's minimax theorem. **89f:49017**
Latif, Abdul *see* **Husain, Taqdir, 89i:47107**
Lu, Tong Shan A note on the fixed point theorem of M. R. Tasković. (Chinese) **89e:26025**
Mańka, Roman Connection between set theory and the fixed point property. **89c:06003**
Mao, Xue Rong A note on random fixed point theorem in probabilistic analysis. **89i:60134**
Martin, John R. Fixed point sets of homeomorphisms of metric products. **89h:55003**
Mayergoyz, I. D. *see* **Belbas, S. A., 89a:49008**
Milman, Vitali D. Diameter of a minimal invariant subset of equivariant Lipschitz actions on compact subsets of $\mathbf{R}^k$. **89m:54053**
— Diameter of a minimal invariant subset of equivariant Lipschitz actions on compact subsets of $\mathbf{R}^k$. **89a:46148**
Mishra, Swami Nath Some coincidence theorems in metric and Banach spaces. **89e:47083**
Naidu, S. V. R. *see* **Sastry, K. P. R.; et al., 89a:46009**
Neĭmark, Yu. I. *see* **Butenin, N. V.; et al., 89c:34001**
Panda, B. B. *see* **Babu, A. C., 89f:47083**
Park, Sehie (*with* Kim, Won Kyu) On generalized KKM-theorems. **89a:47081**
Petruşel, Adrian Fredholm-Volterra integral equations and Maia's theorem. **89j:45002**
Porozhneta, N. N. A fiber-wise variant of the principle of contraction mappings. (Russian) **89c:54040**
Rao, I. H. N. *see* **Sastry, K. P. R.; et al., 89a:46009**
Rao, K. P. R. *see* **Sastry, K. P. R.; et al., 89a:46009**
Rassias, Themistocles M. Fixed point theory and nonlinear problems. **89g:58031**
Reed, G. M. (*with* Roscoe, A. W.) Metric spaces as models for real-time concurrency. **89j:68103**
Rohm, Dale M. *see* **Garity, Dennis J., 89k:57038**
Roscoe, A. W. *see* **Reed, G. M., 89j:68103**
Rybiński, Longin Multivalued contraction mappings with parameters and random fixed point theorems. **89e:47079**
Rzepecki, Bogdan Applications of Sadovskiĭ's fixed point theorem to equations in Banach spaces. **89c:34068**
Sastry, K. P. R. (*with* Naidu, S. V. R.; Rao, I. H. N.; Rao, K. P. R.) Geometry of metric linear spaces with application to fixed point theory. **89a:46009**
Schilling, Klaus An approach to control theory by fixed point algorithms. **89d:49013**
Schirmer, Helga On the location of fixed points on pairs of spaces. **89k:55003**
Shih, Mou Hsiang (*with* Tan, Kok-Keong) A geometric property of convex sets with applications to minimax type inequalities and fixed point theorems. **89i:52018**
Sine, Robert Compact abelian actions on the two cell. **89a:57059**
Subrahmanyam, P. V. *see* **Baskaran, R., 89k:47088**
Sun, Jing Xian Fixed point theorems for noncontinuous increasing operators and applications to nonlinear equations with discontinuous nonlinearities. (Chinese) **89h:47094**
— *see also* **Guo, Da Jun, 89b:47083**
Suzuki, Masaaki The fixed point set and the iterational limits of a holomorphic self-map. **89e:32005**
Tan, Kok-Keong *see* **Shih, Mou Hsiang, 89i:52018**
Tang, Jian Gang Fixed point theorems for fuzzy mappings in 2-metric spaces. (Chinese. English summary) (Not in MR)
Tarafdar, E. A fixed point theorem equivalent to the Fan-Knaster-Kuratowski-Mazurkiewicz theorem. **89a:47084**
Tominaga, Akira The fixed point property for the cone over the Cartesian product of chainable continua. (Russian summary) **89c:54069**
Troutt, Marvin D. Conceptual machines which demonstrate the existence of Brouwer fixed points. **89g:90202**
Violette, Donald *see* **Fournier, Gilles, 89f:47084**
Wang, Ze Ke A survey of simplicial fixed point algorithms. (Chinese. English summary) **89m:90144**
Watanabe, Tadashi *see* Čerin, Z., **89c:55004**
Yang, Shu Lang The fixed points of set-valued mappings and the periodic solutions of systems. (Chinese) **89a:34074**
Yu, Jian Fixed point theorems for upper hemicontinuous multivalued mappings. (Chinese. English summary) **89k:47098**
Zhang, Shi Sheng On fixed degrees of fuzzy mappings. (Chinese) **89a:54011**
— Coincidence degree and coincidence theorems for fuzzy mappings. **89j:54011**
— Properties of probabilistic metric spaces and fixed-point theorems for set-valued mappings. (Chinese. English summary) **89k:54076**

54H99 None of the above, but in this section

Blanco Martín, Ma. Francisca (*with* Pérez Carrillo de Albornoz, Ma. Luisa) Spectral spaces and compactification. (Spanish. English summary) **89k:54113**
Davenport, Dennis (*with* Hindman, Neil) Subprincipal closed ideals in βN. **89h:54031**
Hindman, Neil *see* **Davenport, Dennis, 89h:54031**
Pérez Carrillo de Albornoz, Ma. Luisa *see* **Blanco Martín, Ma. Francisca, 89k:54113**
Popov, V. V.[1] The Lindelöf number of the space of subalgebras in the Ochan topologies. (Russian) **89d:54042**
Veksler, A. I. Topological properties of the set of almost infinity points of an extended measure. (Russian) **89g:54112**

Items with secondary classifications in 54H99

Antonyan, S. A. Equivariant embeddings into *G*-ARs. (Serbo-Croatian summary) **89k:54041**
Balcerzak, Marek Some Bernstein-type construction and its applications. (Polish summary) **89g:04004**
Bell, J. L. Some propositions equivalent to the Sikorski extension theorem for Boolean algebras. **89k:03059**
Császár, Á. Multiplicative semigroups of continuous mappings into topological semigroups. **89h:54010**
Dăianu, Dan Functional [functorial] biconvergence. (Romanian summary) **89c:54060**
Frič, Roman (*with* Zanolin, Fabio) Sequential convergence in free groups. (Italian summary) **89f:54001**
Pap, Endre Zero-continuous functions on *k*-, *n*-, and complete spaces. (Serbo-Croatian summary) **89e:54058**
Pérez Esteban, Dionisio Semi-rings and spectral spaces. **89i:08010**
Pultr, A. (*with* Sichler, J.) Frames in Priestley's duality. (French summary) **89j:18004**
Remus, Dieter Topological groups without nontrivial characters. **89f:22002**
Sambin, Giovanni (*with* Vaccaro, Virginia) Topology and duality in modal logic. **89d:03015**
Sichler, J. *see* **Pultr, A., 89j:18004**
Tkachenko, M. G. Compactness type properties in topological groups. **89h:22004**
Vaccaro, Virginia *see* **Sambin, Giovanni, 89d:03015**
Zanolin, Fabio *see* **Frič, Roman, 89f:54001**

54J05 Nonstandard topology [see also 03Hxx]

Items with secondary classifications in 54J05

Benninghofen, Benjamin (*with* Richter, Michael M.) A general theory of superinfinitesimals. **89b:03106**
Čuda, K. A contribution to topology in AST: compactness. **89a:03098**
— (*with* Vojtášková, B.) Minimal monads. **89b:03089**
Kutateladze, S. S. On topological concepts close to continuity. (Russian) **89c:54005**
Lê Thánh Phong Analyse non-standard et cohomologie de Spanier d'après J. P. Reveilles. [Nonstandard analysis and Spanier cohomology, after J. P. Reveilles] **89f:55006**
Lindstrøm, Tom An invitation to nonstandard analysis. (*see* **89m:03060**)
Majewski, Mirosław Elementary extensions of topological models in L_t language. **89h:03066**
Mantilla, I. (*with* Muñoz Quevedo, José M.; Takeuchi, Yu) The *C*-topology of $\mathbf{R}^*$. (Spanish) **89b:03108**
Muñoz Quevedo, José M. *see* **Mantilla, I.; et al., 89b:03108**
(Reveilles, J. P.) *see* **Lê Thánh Phong, 89f:55006**
Richter, Michael M. *see* **Benninghofen, Benjamin, 89b:03106**
Salbany, S. (*with* Todorov, T. D.) Alexander's subbase lemma. **89e:03117**
Stroyan, Keith D. Superinfinitesimals and inductive limits. (*see* **89m:03060**)
Takeuchi, Yu Sequential completion of $\mathbf{R}^*$. (Spanish) **89e:26040**
— *see also* **Mantilla, I.; et al., 89b:03108**
Todorov, T. D. *see* **Salbany, S., 89e:03117**
Vojtášková, B. *see* **Čuda, K., 89b:03089**
Živaljević, Rade On a cohomology theory based on hyperfinite sums of microsimplexes. **89a:55004**

55–XX Algebraic topology

55–01 Elementary exposition; textbooks

Chen, Ji Xiang ★ Daishu tuopu jichu jiangyi. (Chinese) [Lectures on the foundations of algebraic topology] **89g:55001**
Stöcker, Ralph (*with* Zieschang, Heiner) ★ Algebraische Topologie. (German) [Algebraic topology] **89e:55001**
Zieschang, Heiner *see* **Stöcker, Ralph, 89e:55001**

Items with secondary classifications in 55-01

(Antelmann, Horst) *see* **Dieudonné, Jean, 89b:58001**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 9. (German) [Foundations of modern analysis. 9] **89b:58001**
Postnikov, M. M. ★ Гладкие многообразия. (Russian) [Smooth manifolds] **89i:58002**

55-02 Advanced exposition (research surveys, monographs, etc.)

Greenlees, J. P. C. How blind is your favourite cohomology theory? **89j:55001**
Moore, John C. (*with* Neisendorfer, Joseph A.) A view of some aspects of unstable homotopy theory since 1950. **89e:55002**
Neisendorfer, Joseph A. *see* **Moore, John C., 89e:55002**

Items listed otherwise than by author

Some open questions in geometric topology and shape theory Some open questions in geometric topology and shape theory. **89c:55001**

Items with secondary classifications in 55-02

Bredon, Glen E. ★ Теория пучков. (Russian) [Sheaf theory] **89j:55006**
Cohen, Fred R. A course in some aspects of classical homotopy theory. **89e:55027**
(Sklyarenko, E. G.) *see* **Bredon, Glen E., 89j:55006**
(Volovikov, A. Yu.) *see* **Bredon, Glen E., 89j:55006**

55-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 55-03

(Brouwer, L. E. J.) *see* **Johnson, Dale M., (89b:01002)**
Johnson, Dale M. L. E. J. Brouwer's coming of age as a topologist. (*see* **89b:01002**)
Mac Lane, Saunders Group extensions for 45 years. **89d:01049**
Moore, John C. (*with* Neisendorfer, Joseph A.) A view of some aspects of unstable homotopy theory since 1950. **89e:55002**
Neisendorfer, Joseph A. *see* **Moore, John C., 89e:55002**

55-04 Explicit machine computation and programs (not the theory of computation or programming)

Ng, Tze Beng Computation of the cohomology of $B\hat{S}O_n\langle 16\rangle$ for $23 \leq n \leq 26$ using REDUCE. (Not in MR)

Items with secondary classifications in 55-04

Anick, David J. The computation of rational homotopy groups is $\#\mathscr{P}$-hard. **89m:55006**

55-06 Proceedings, conferences, etc.

(Félix, Yves) *see* **Algebraic topology—rational homotopy, 89b:55001**
(Tangora, Martin C.) *see* **Computers in geometry and topology, 89j:55002**

Items listed otherwise than by author

Algebraic topology—rational homotopy ★ Algebraic topology—rational homotopy. **89b:55001**
Chicago, IL ★ Computers in geometry and topology. **89j:55002**
Computers in geometry and topology ★ Computers in geometry and topology. **89j:55002**
Conference:
  Algebraic Topology ★ Algebraic topology—rational homotopy. **89b:55001**
  Computers in Geometry and Topology ★ Computers in geometry and topology. **89j:55002**
Lecture Notes in Mathematics ★ Algebraic topology—rational homotopy. **89b:55001**
Louvain-la-Neuve ★ Algebraic topology—rational homotopy. **89b:55001**
Montreal, PQ ★ Topics in equivariant topology. **89m:55001**
NATO Advanced Study Institute:
  Variational Methods in Nonlinear Problems ★ Topics in equivariant topolcgy. **89m:55001**
Research in shape theory and geometric topology ★ Shape riron oyobi geometric topology no kenkyū. (Japanese) [Research in shape theory and geometric topology] **89k:55001**
Symposium:
  Research in Shape Theory and Geometric Topology ★ Shape riron oyobi geometric topology no kenkyū. (Japanese) [Research in shape theory and geometric topology] **89k:55001**
Topics in equivariant topology ★ Topics in equivariant topology. **89m:55001**

Items with secondary classifications in 55-06

Conference:
  Topology ★ III Convegno Nazionale di Topologia. [Third National Conference on Topology] **89c:54001**
Symposium:
  Transformation groups and Whitehead groups ★ Transformation groups and Whitehead groups. **89b:00020**
Transformation groups and Whitehead groups ★ Transformation groups and Whitehead groups. **89b:00020**
Trieste ★ III Convegno Nazionale di Topologia. [Third National Conference on Topology] **89c:54001**

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57N05, 57N10, 57N15.}

55M05 Duality

Odinets, V. P. On a Rohlin hypothesis. (Russian and Polish summaries) **89c:55002**

Items-with secondary classifications in 55M05

Nikiforov, V. A. The Eilenberg-Borsuk duality theorem. **89g:54032**

55M10 Dimension theory [see also 54F45]

Félix, Yves (*with* Thomas, Jean-Claude) The formal dimension of a topological space. **89g:55002**
Okun′, B. L. Homological dimension and Mayer-Vietoris sequences. **89j:55003**
Rubin, Leonard R. Cell-like maps, dimension and cohomological dimension: a survey. **89a:55001**
— Determining the cohomological dimension of certain compacta. **89c:55003**
— (*with* Schapiro, Philip J.) Cell-like maps onto noncompact spaces of finite cohomological dimension. **89b:55002**
Schapiro, Philip J. *see* **Rubin, Leonard R., 89b:55002**
Thomas, Jean-Claude *see* **Félix, Yves, 89g:55002**

Items with secondary classifications in 55M10

Bestvina, Mladen Characterizing k-dimensional universal Menger compacta. **89g:54083**
Deo, Satya (*with* Muttepawar, Subhash) On cohomological dimension of a space and its Stone-Čech compactification. **89i:54046**
Dranishnikov, A. N. Infinite-dimensional compacta with finite cohomological dimension modulo p. **89g:54085**
Garity, Dennis J. (*with* Rohm, Dale M.) Stable maps into the Hilbert cube. **89k:57038**
Haase, H. Die metrische Dimension analytischer Mengen. [The metric dimension of analytic sets] **89h:28012**
Izydorek, Marek Remarks on Borsuk-Ulam theorem for multivalued maps. (Russian summary) **89d:55008**
Krasinkiewicz, J. Essential mappings onto products of manifolds. **89e:54071**
Muttepawar, Subhash *see* **Deo, Satya, 89i:54046**
Rohm, Dale M. *see* **Garity, Dennis J., 89k:57038**

55M15 Absolute neighborhood retracts [see also 54C55, 54F40]

Items with secondary classifications in 55M15

van der Bijl, Jos (*with* van Mill, Jan) Linear spaces, absolute retracts, and the compact extension property. **89k:57037**
Kato, Hisao Whitney continua of graphs admit all homotopy types of compact connected ANRs. **89k:54026**
van Mill, Jan *see* **van der Bijl, Jos, 89k:57037**
Miwa, Takuo A locally convex topology of simplicial complexes. **89b:57013**

55M20 Fixed points and coincidences [see also 54H25]

Alpern, Steve Area-preserving homeomorphisms of the open disk without fixed points. **89e:55003**
Bielawski, Roger The fixed point index for acyclic maps on ENRs. (Russian summary) **89d:55001**
Čerin, Z. (*with* Watanabe, Tadashi) Borsuk fixed point theorem for multivalued maps. **89c:55004**
Dold, Albrecht Parametrized Borsuk-Ulam theorems. **89h:55001**
Duan, Hai Bao The Lefschetz number of self-maps of Lie groups. **89d:55002**
Fadell, Edward (*with* Husseini, Sufian) An ideal-valued cohomological index theory with applications to Borsuk-Ulam and Bourgin-Yang theorems. **89k:55002**
— (*with* Wong, Peter Ngai-Sing) On deforming G-maps to be fixed point free. **89d:55003**
Fathi, Albert An orbit closing proof of Brouwer's lemma on translation arcs. **89d:55004**
Gonçalves, Daciberg Lima Braid groups and Wecken pairs. **89h:55002**
Husseini, Sufian *see* **Fadell, Edward, 89k:55002**
Jiang, Bo Ju A characterization of fixed point classes. **89j:55004**
Kelly, Michael R. Fixed points through homotopies. **89j:55005**
Komiya, Katsuhiro The Lefschetz number for equivariant maps. **89e:55004**
— Fixed point indices of equivariant maps and Möbius inversion. **89e:55005**
Martin, John R. Fixed point sets of homeomorphisms of metric products. **89h:55003**
Pak, Jingyal On the fibered Jiang spaces. **89g:55003**
Schirmer, Helga Some recent results in fixed point theory. **89h:55004**
— Fix-finite and fixed point free approximations of symmetric product maps. **89g:55004**
— On the location of fixed points on pairs of spaces. **89k:55003**
Watanabe, Tadashi *see* **Čerin, Z., 89c:55004**
Winkelnkemper, H. E. A generalization of the Poincaré-Birkhoff theorem. **89e:55006**
Wong, Peter Ngai-Sing *see* **Fadell, Edward, 89d:55003**

Items with secondary classifications in 55M20

Brown, Robert F. Multiple solutions to parametrized nonlinear differential systems from Nielsen fixed point theory. **89e:47086**
— Topological identification of multiple solutions to parametrized nonlinear equations. **89e:47087**
Daccach, Janey Antonio Nonexistence of equivariant degree one maps. **89f:55001**
Dawidowicz, Andrzej Spherical maps. **89c:54037**
Fadell, Edward (*with* Husseini, Sufian) Index theory for G-bundle pairs with applications to Borsuk-Ulam type theorems for G-sphere bundles. **89g:55029**
Harzheim, Egbert Combinatorial generalizations of the Jordan-Brouwer separation theorem. **89f:55003**
Husseini, Sufian *see* **Fadell, Edward, 89g:55029**
Idzik, Adam Almost fixed point theorems. **89i:47108**
Izydorek, Marek Remarks on Borsuk-Ulam theorem for multivalued maps. (Russian summary) **89d:55008**
Jezierski, Jerzy The Nielsen relation for multivalued maps. **89d:54036**

Medvedev, Vladislav Sergeevich The index of invariant domains of the homeomorphisms of two-dimensional manifolds. **89d:58116**

Milman, Vitali D. Diameter of a minimal invariant subset of equivariant Lipschitz actions on compact subsets of $\mathbf{R}^k$. **89a:46148**

Park, Sehie Fixed point theorems for compact acyclic metric spaces. **89e:54096**

Pelikan, Stephan (*with* Slaminka, Edward E.) A bound for the fixed point index of area-preserving homeomorphisms of two-manifolds. **89a:58018**

Sine, Robert Compact abelian actions on the two cell. **89a:57059**

Slaminka, Edward E. *see* **Pelikan, Stephan, 89a:58018**

Suzuki, Masaaki The fixed point set and the iterational limits of a holomorphic self-map. **89e:32005**

Vidal, Antonio On equivariant deformation of maps. **89f:57056**

Watanabe, Tadashi Approximative shape. III. Fixed point theorems. **89h:54013**

55M25 Degree, winding number

Daccach, Janey Antonio Nonexistence of equivariant degree one maps. **89f:55001**

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Omari, Pierpaolo (*with* Villari, Gabriele) On a continuation lemma for the study of a certain planar system with applications to Liénard and Rayleigh equations. **89k:34062**

Robbin, Joel W. (*with* Salamon, Dietmar) Dynamical systems, shape theory and the Conley index. **89h:58094**

Rost, Markus ★ Abbildungsdefekte in 4-Mannigfaltigkeiten. (German) [Mapping defects in 4-manifolds] **89a:57041**

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Švarc, Rudolf Some combinatorial results about the operators with jumping nonlinearities. **89h:58020**

Villari, Gabriele *see* **Omari, Pierpaolo, 89k:34062**

55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space

Clapp, Mónica (*with* Puppe, Dieter) Improving categorical coverings of spaces. **89f:55002**

Félix, Yves (*with* Lemaire, Jean-Michel) Corrections to: "On the mapping theorem for Lusternik-Schnirelmann category" [Topology **24** (1985), no. 1, 41–43; MR 86m:55005]. **89d:55005**

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Fadell, Edward (*with* Husseini, Sufian) An ideal-valued cohomological index theory with applications to Borsuk-Ulam and Bourgin-Yang theorems. **89k:55002**

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Halperin, Stephen *see* **Félix, Yves; et al., 89k:55019**

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Sanjurjo, José M. R. Shape morphisms and components of movable compacta. **89d:54025**

Singh, Harpreet[2] Lusternik-Schnirelmann category and cobordism. **89f:57046**

— Cobordism classes of manifolds with category four. **89j:57031**

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Wong, Raymond Y. T. A Hilbert cube L-S category. **89b:57011**

55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

Dwyer, W. G. (*with* Wilkerson, Clarence W.) Smith theory revisited. **89g:55005**

Pfister, A. (*with* Stolz, S.) On the level of projective spaces. **89e:55008**

Stolz, S. *see* **Pfister, A., 89e:55008**

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Fomenko, T. N. *see* **Borisovich, Yu. G., 89m:58029**

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55M99 None of the above, but in this section

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55Nxx Homology and cohomology theories [see also 57Txx]

55N05 Čech types

Dydak, Jerzy (*with* Kozlowski, George) A generalization of the Vietoris-Begle theorem. **89a:55003**

Kozlowski, George *see* **Dydak, Jerzy, 89a:55003**

Lisitsa, Yu. T. (*with* Mardešić, S.) Steenrod homology. **89e:55009**

Mardešić, S. *see* **Lisitsa, Yu. T., 89e:55009**

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Mdzinarishvili, L. D. On exact homology. **89c:55009**

Preuss, Gerhard A generalization of Hopf's classification theorem. **89h:54021**

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Watanabe, Tadashi The continuity axiom and the Čech homology. **89a:55007**

55N07 Steenrod-Sitnikov homologies

Bauer, Friedrich-W. Strong homology theories. **89d:55009**

Lisitsa, Yu. T. The Alexander-Pontryagin duality theorem for coherent homology and cohomology with coefficients in sheaves of modules. **89b:55003**

Mardešić, S. Partial continuity of strong homology. (Serbo-Croatian summary) **89h:55006**

— A note on strong homology of inverse systems. **89c:55006**

— (*with* Watanabe, Tadashi) Strong homology and dimension. **89h:55005**

Watanabe, Tadashi *see* **Mardešić, S., 89h:55005**

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Lisitsa, Yu. T. (*with* Mardešić, S.) Steenrod homology. **89e:55009**

Mardešić, S. *see* **Lisitsa, Yu. T., 89e:55009**

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55N10 Singular theory

Mkrtchyan, G. A. Calculation of cohomology groups for some classes of hypercomplex-convex compacta. (Russian) **89k:55004**

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Moerdijk, Ieke (*with* Reyes, Gonzalo E.) Cohomology theories in synthetic differential geometry. **89k:58004**

Nowak, Sławomir On the homology of function spaces. **89e:55021**

Reyes, Gonzalo E. *see* **Moerdijk, Ieke, 89k:58004**

55N15 *K*-theory [see also 19Lxx] {For algebraic *K*-theory, see 18F25, 19–XX.}

Kobayashi, Teiichi KO-cohomology of low-dimensional lens spaces mod 2^r. **89e:55011**

Kôno, Susumu *see* **Tamamura, Akie, 89g:55007**

Magalhães, Luisa Some results in the connective K-theory of Lie groups. **89e:55012**

Minami, Haruo The real K-groups of $\mathrm{SO}(n)$ for $n \equiv 3, 4$ and $5 \bmod 8$. **89g:55006**

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Antoniano, E. (*with* Gitler, S.; Ucci, J.; Zvengrowski, P.) On the K-theory and parallelizability of projective Stiefel manifolds. **89g:57058**

Bousfield, A. K. Uniqueness of infinite deloopings for K-theoretic spaces. **89g:55017**

Crabb, Michael C. (*with* Knapp, Karlheinz) Central Adams operators. **89g:55015**

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Inasaridze, Kh. N. On the homotopization of Karoubi-Villamayor algebraic K-theory. (Russian. English and Georgian summaries) **89d:18003**

Ishiguro, Kenshi Classifying spaces and p-local irreducibility. **89h:55027**
Knapp, Karlheinz *see* **Crabb, Michael C., 89g:55015**
Lance, Timothy Local H-maps of BU and applications to smoothing theory. **89k:55014**
Mayorquin, J. G. The mod 2 K-homology of Ω^3S^3X. **89g:55013**
Morisugi, Kaoru Stable maps to projective spaces. **89f:55008**
Pejsachowicz, Jacobo K-theoretic methods in bifurcation theory. **89k:58060**
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Swan, Richard G. Vector bundles, projective modules and the K-theory of spheres. **89f:18009**
Troitskiĭ, E. V. An exact K-cohomology C^*-index formula. I. Thom isomorphism and topological index. **89i:58140**
Ucci, J. *see* **Antoniano, E.; et al., 89g:57058**
Upmeier, Harald Index theory for multivariable Wiener-Hopf operators. **89c:58125**
Zvengrowski, P. *see* **Antoniano, E.; et al., 89g:57058**

55N20 Generalized (extraordinary) homology and cohomology theories

Magneron, Bernard Cohomologie des groupes et des espaces de transformation. (English summary) [Cohomology of groups and transformation spaces] **89h:55008**
— Spineurs purs et description cohomologique des groupes spinoriels. (English summary) [Pure spinors and cohomological description of spinor groups] **89h:55009**
Mahowald, Mark E. Thom complexes and the spectra bo and bu. **89a:55005**
Manuilov, V. M. Natural homomorphisms in homology. **89d:55010**
Saneblidze, S. A. Extraordinary homology theories on compact spaces. (Russian. English summary) **89d:55011**
Watanabe, Takashi On the mod p J-homology of complex projective space. **89k:55006**

Items with secondary classifications in 55N20

Bauer, Friedrich-W. Strong homology theories. **89d:55009**
Dydak, Jerzy (*with* Kozlowski, George) A generalization of the Vietoris-Begle theorem. **89a:55003**
Greenlees, J. P. C. How blind is your favourite cohomology theory? **89j:55001**
Klippenstein, John Brown-Gitler spectra at BP$\langle 2\rangle$. **89k:55012**
Kozlowski, George *see* **Dydak, Jerzy, 89a:55003**
Kultze, R. (*with* Würgler, U.) The algebra $k(n)_*(k(n))$ for the prime 2. **89k:55037**
Lannes, Jean Sur le n-dual du n-ème spectre de Brown-Gitler. [On the n-dual of the Brown-Gitler nth spectrum] **89h:55020**
Rudyak, Yu. B. On the orientability of spherical, topological and piecewise linear bundles in complex K-theory. **89g:55027**
Witten, Edward Elliptic genera and quantum field theory. **89i:57017**
Würgler, U. *see* **Kultze, R., 89k:55037**

55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

Ayala Gómez, Rafael (*with* Domínguez Murillo, Eladio; Quintero, A.) A geometric proof of Hurewicz's theorem. **89m:55003**
Bakuradze, M. R. (*with* Nadiradze, R. G.) Cohomological realizations of two-valued formal groups and their applications. (Russian. English and Georgian summaries) **89e:55013**
Domínguez Murillo, Eladio *see* **Ayala Gómez, Rafael; et al., 89m:55003**
Handel, David Bordism of algebras over Hopf algebras. **89a:55006**
Kholodov, A. N. Multidimensional two-valued commutative formal groups. **89d:55012**
Kuhn, Nicholas J. The Morava K-theories of some classifying spaces. **89d:55013**
Nadiradze, R. G. *see* **Bakuradze, M. R., 89e:55013**
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Ray, Nigel Symbolic calculus: a 19th century approach to MU and BP. **89k:55007**
Shimada, Nobuo Errata to: "An MU-analogue of the lambda algebra" [Publ. Res. Inst. Math. Sci. 22 (1986), no. 6, 1191–1204; MR 88g:55010]. **89f:55004**
Szűcs, András Cobordism of immersions and singular maps, loop spaces and multiple points. **89g:55008**

Items with secondary classifications in 55N22

Baker, Andrew Combinatorial and arithmetic identities based on formal group laws. **89f:55012**
Buoncristiano, Sandro (*with* Hacon, Derek) A geometrical approach to characteristic numbers. **89a:57047**
Gilkey, Peter B. The eta invariant and the equivariant unitary bordism of spherical space form groups. **89g:58193**
Hacon, Derek *see* **Buoncristiano, Sandro, 89a:57047**
Pergher, Pedro L. Q. Manifolds with $(Z_2)^k$-action. **89m:57039**
Ravenel, Douglas C. The geometric realization of the chromatic resolution. **89d:55050**
Voronov, F. F. (*with* Zorich, A. V.) Theory of bordisms and homotopy properties of supermanifolds. (Russian) **89d:58012**
Yue, Qing Qi Manifolds with an involution whose fixed point set has constant codimension. (Chinese) **89j:57032**
Zorich, A. V. *see* **Voronov, F. F., 89d:58012**

55N25 Homology with local coefficients, equivariant cohomology

Deo, Satya (*with* Roy, Atul N.) On equivariant cohomology theories. **89e:55014**
Pazhitnov, A. V. Proof of a conjecture of Novikov on homology with local coefficients over a field of finite characteristic. **89g:55009**
Roy, Atul N. *see* **Deo, Satya, 89e:55014**

Items with secondary classifications in 55N25

Gerstenhaber, Murray (*with* Schack, Samuel D.) The cohomology of presheaves of algebras. I. Presheaves over a partially ordered set. **89k:16052**
Kirwan, F. C. Rational intersection cohomology of quotient varieties. II. **89e:14010**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 89k:16052**

55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

Bredon, Glen E. ★ Теория пучков. (Russian) [Sheaf theory] **89j:55006**
Deo, Satya (*with* Jamwal, Dalip Singh; Krishan, Ram) Cohomology with exotic supports and the generalized excision. **89h:55010**
Golovin, V. D. Cohomology of computable sheaves. (Russian. English and Georgian summaries) **89k:55008**
Jamwal, Dalip Singh *see* **Deo, Satya; et al., 89h:55010**
Krishan, Ram *see* **Deo, Satya; et al., 89h:55010**
Sagandykov, M. M. Some theorems of sheaf theory for spaces with a finite transformation group. (Russian) **89d:55014**
(Sklyarenko, E. G.) *see* **Bredon, Glen E., 89j:55006**
Skurikhin, E. E. The cohomology theory of normal sheaves. I. (Russian. Serbo-Croatian summary) **89b:55004**
— The cohomology theory of normal sheaves. II. Acyclic resolvents and some applications. (Russian. Serbo-Croatian summary) **89b:55005**
(Volovikov, A. Yu.) *see* **Bredon, Glen E., 89j:55006**
Zarelua, A. V. Homotopical properties of sheaf resolutions. **89j:55007**

Items with secondary classifications in 55N30

Asada, Akira Nonabelian de Rham theory. **89m:58005**
— Nonabelian de Rham theories. **89f:58004**
Bryant, John Logan Homogeneous ENRs. **89d:57025**
Deo, Satya (*with* Roy, Atul N.) On equivariant cohomology theories. **89e:55014**
Dydak, Jerzy (*with* Walsh, John J.) Sheaves that are locally constant with applications to homology manifolds. **89d:57026**
Lisitsa, Yu. T. The Alexander-Pontryagin duality theorem for coherent homology and cohomology with coefficients in sheaves of modules. **89b:55003**
Roy, Atul N. *see* **Deo, Satya, 89e:55014**
Walsh, John J. *see* **Dydak, Jerzy, 89d:57026**
Zarelua, A. V. Locally homotopically contractible differential graded sheaves. (Russian) **89b:55023**

55N35 Other homology theories

Barge, Jean (*with* Ghys, É.) Surfaces et cohomologie bornée. [Surfaces and bounded cohomology] **89e:55015**
Brown, Edgar H., Jr. (*with* Szczarba, Robert H.) Continuous cohomology and real homotopy type. **89f:55005**
Deo, Satya (*with* Roy, Atul N.) Tautness and locally finitely-valued Alexander-Spanier cochains. **89c:55007**
Ghys, É. *see* **Barge, Jean, 89e:55015**
Lê Thánh Phong Analyse non-standard et cohomologie de Spanier d'après J. P. Reveilles. [Nonstandard analysis and Spanier cohomology, after J. P. Reveilles] **89f:55006**
Mardešić, S. (*with* Prasolov, A. V.) Strong homology is not additive. **89h:55011**
Prasolov, A. V. *see* **Mardešić, S., 89h:55011**
(Reveilles, J. P.) *see* **Lê Thánh Phong, 89f:55006**
Roy, Atul N. *see* **Deo, Satya, 89c:55007**
Szczarba, Robert H. *see* **Brown, Edgar H., Jr., 89f:55005**

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Berikashvili, N. A. On the uniqueness of homology theory on the category of compact spaces. (Russian. English summary) **89c:55008**
Cohen, Joel M. L^2-cohomology in topology, algebra, and analysis. **89h:58181**
Fieseler, Karl-Heinz (*with* Kaup, Ludger) On the hard Lefschetz theorem in intersection homology for complex varieties with isolated singularities. **89c:14026**
— (*with* Kaup, Ludger) Theorems of Lefschetz type in intersection homology. I. The hyperplane section theorem. **89k:32024**
Jones, John D. S. (*with* Petrack, S. B.) Le théorème des points fixes en cohomologie équivariante en dimension infinie. (English summary) [On the fixed-point theorem in equivariant cohomology in infinite dimensions] **89b:58012**
Kaup, Ludger *see* **Fieseler, Karl-Heinz, 89c:14026** *and* **89k:32024**
Kirwan, F. C. Rational intersection cohomology of quotient varieties. II. **89e:14010**
Kuwata, Masato Intersection homology of weighted projective spaces and pseudo-lens spaces. **89k:57042**
Lalonde, François Homologies de Shih: définition et propriétés. [Shih homologies: definition and properties] **89a:57039**
McCord, Christopher Mappings and homological properties in the Conley index theory. **89m:58177**
Petrack, S. B. *see* **Jones, John D. S., 89b:58012**

55N40 Axioms for homology theory and uniqueness theorems

Berikashvili, N. A. On the uniqueness of homology theory on the category of compact spaces. (Russian. English summary) **89c:55008**
Dawson, Robert J. MacG. A simplification of the Eilenberg-Steenrod axioms for finite simplicial complexes. **89h:55012**
Mdzinarishvili, L. D. On exact homology. **89c:55009**
Watanabe, Tadashi The continuity axiom and the Čech homology. **89a:55007**

Items with secondary classifications in 55N40

Deo, Satya (*with* Jamwal, Dalip Singh; Krishan, Ram) Cohomology with exotic supports and the generalized excision. **89h:55010**
Jamwal, Dalip Singh *see* **Deo, Satya; et al., 89h:55010**
Krishan, Ram *see* **Deo, Satya; et al., 89h:55010**
Lisitsa, Yu. T. (*with* Mardešić, S.) Steenrod homology. **89e:55009**
Mardešić, S. *see* **Lisitsa, Yu. T., 89e:55009**

Watanabe, Tadashi Čech homology, Steenrod homology and strong homology. I. (Serbo-Croatian summary) **89e:55010**

55N45 Products and intersections

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Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

55N91 Equivariant homology and cohomology

Brylinski, Jean-Luc Cyclic homology and equivariant theories. (French summary) **89j:55008**

Carlsson, Gunnar Segal's Burnside ring conjecture and related problems in topology. **89g:55010**

Mramor-Kosta, Neža The set of balanced points with respect to S^1 and S^3 actions of maps into Banach space. **89f:55007**

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Assadi, Amir H. Some local-global results in finite transformation groups. **89g:57053**

Deo, Satya (*with* Roy, Atul N.) On equivariant cohomology theories. **89e:55014**

Fadell, Edward (*with* Husseini, Sufian) Index theory for G-bundle pairs with applications to Borsuk-Ulam type theorems for G-sphere bundles. **89g:55029**

Ginzburg, V. A. Equivariant cohomology and Kähler geometry. (Russian) **89b:58013**

Husseini, Sufian *see* **Fadell, Edward, 89g:55029**

Jones, John D. S. (*with* Petrack, S. B.) Le théorème des points fixes en cohomologie équivariante en dimension infinie. (English summary) [On the fixed-point theorem in equivariant cohomology in infinite dimensions] **89b:58012**

Legrand, A. Caractérisation des opérations d'algèbres sur les modules différentiels. (English summary) [Characterization of actions of algebras on differential modules] **89f:55021**

May, J. P. Equivariant constructions of nonequivariant spectra. **89e:55025**

Petrack, S. B. *see* **Jones, John D. S., 89b:58012**

Roy, Atul N. *see* **Deo, Satya, 89e:55014**

Thomason, R. W. Equivariant algebraic vs. topological K-homology Atiyah-Segal-style. **89f:14015**

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Bognár, M. On linking Jordan curves. **89g:55011**

Kozlowski, Andrzej Delooping the total Stiefel-Whitney class. **89a:55008**

Paul, D. W. Theory of bounded groups and their bounded cohomology. **89i:55001**

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Eichhorn, Jürgen L_2-cohomology. **89j:58005**

Fisch, Jean (*with* Henneaux, M.; Stasheff, James; Teitelboim, Claudio) Existence, uniqueness and cohomology of the classical BRST charge with ghosts of ghosts. **89m:81093**

Henneaux, M. *see* **Fisch, Jean; et al., 89m:81093**

Hernández, Luis J. Proper cohomologies and the proper classification problem. **89d:55047**

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Stasheff, James Cohomological physics. **89i:58003**

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Woo, Moo Ha (*with* Lee, Kee Young) Homology and generalized evaluation subgroups of homotopy groups. **89k:55026**

Yokura, Shoji Algebraic cycles and intersection homology. **89h:14007**

Zucker, Steven M. L_2-cohomology and intersection homology of locally symmetric varieties. II. **89i:32073**

55Pxx Homotopy theory {For simple homotopy type, see 57Q10.}

Items with secondary classifications in 55Pxx

Cohen, Fred R. A course in some aspects of classical homotopy theory. **89e:55027**

55P05 Homotopy extension properties, cofibrations

Chen, Ji Xiang On the comparison of the weak and very weak homotopy extension properties. (Chinese) **89h:55013**

Kieboom, R. W. Note on a theorem of Dold on cofibrations. **89d:55015**

Mirzakhanyan, È. A. An infinite-dimensional generalization of a theorem of Borsuk on the unbounded component. (Russian. Armenian summary) **89e:55016**

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Kieboom, R. W. New lifting properties of weak fibrations. **89b:55016**

Raghavan, T. G. On equivariant homotopy, Hopf G-spaces and equivariant Spanier-Whitehead theorem. **89e:55020**

Watanabe, Tadashi The continuity axiom and the Čech homology. **89a:55007**

55P10 Homotopy equivalences

Peschke, Georg H-semidirect products. **89a:55009**

Rutter, John W. The group of homotopy self-equivalence classes using an homology decomposition. **89d:55016**

Items with secondary classifications in 55P10

Arias de Reyna Martínez, Juan A generalized mean-value theorem. **89m:26001**

Ferry, Steve UV^k-equivalent compacta. **89e:54030**

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Sawashita, Norichika (*with* Sugawara, Masahiro) On self H-equivalences of homotopy associative H-spaces. **89d:55025**

Sugawara, Masahiro *see* **Sawashita, Norichika, 89d:55025**

55P15 Classification of homotopy type

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55P91 Equivariant homotopy theory

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55Q20 Homotopy groups of wedges, joins, and simple spaces

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55Q40 Homotopy groups of spheres

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55Q45 Stable homotopy

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55Q52 Homotopy groups of special spaces

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55Q55 Cohomotopy groups

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55Q70 Homotopy groups of special types [see also 55N05, 55N07]

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

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55R10 Fiber bundles

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55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

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55R25 Sphere bundles and vector space bundles

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Rudyak, Yu. B. On the orientability of spherical, topological and piecewise linear bundles in complex K-theory. **89g:55027**

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55R35 Classifying spaces of groups and H-spaces

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— (*with* Wilkerson, Clarence W.) Maps of $B\mathbf{Z}/p\mathbf{Z}$ to BG. **89i:55011**

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Kono, Akira *see* **Harada, Masana, 89c:55013**

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55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

Astey, L. (*with* Gitler, S.; Micha, E.; Pastor, Guillermo) On Chern classes of stably fibre homotopic trivial bundles. **89f:55018**

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Eccles, Peter J. (*with* Mitchell, William P. R.) Splitting $\Sigma(\mathbf{CP}^\infty \times \mathbf{CP}^\infty)$ localized at 2. **89h:55028**

Giambalvo, V. (*with* Pengelley, David J.; Ravenel, Douglas C.) A fractal-like algebraic splitting of the classifying space for vector bundles. **89c:55014**

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Milgram, R. J. Some remarks on the Kirby-Siebenmann class. **89k:55034**

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Ng, Tze Beng On the integral cohomology of the seven-connective cover of BO. **89i:55012**

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Ognikyan, A. A. Cohomology rings modulo 2 of some Thom spaces. (Russian. Armenian summary) (Not in MR)

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Madsen, Ib ★ Lectures on characteristic classes in algebraic topology. **89m:57023**

Markl, Martin The integral cohomology rings of real infinite-dimensional flag manifolds. **89h:57019**

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55R45 Homology and homotopy of BO and BU; Bott periodicity [see also 19L99]

Yoshida, Toshio Universal Wu classes. **89a:55029**

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Freed, Daniel S. An index theorem for families of Fredholm operators parametrized by a group. **89j:58133**

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Mahowald, Mark E. Thom complexes and the spectra bo and bu. **89a:55005**

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55R50 Stable classes of vector space bundles, K-theory [see also 19L99] {For algebraic K-theory, see 18F25, 19–XX.}

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Crabb, Michael C. (*with* Knapp, Karlheinz) On the codegree of negative multiples of the Hopf bundle. **89d:55042**

Freed, Daniel S. $\mathbf{Z}/k$-manifolds and families of Dirac operators. **89f:58127**

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Knapp, Karlheinz *see* **Crabb, Michael C., 89d:55042**

Kobayashi, Teiichi KO-cohomology of low-dimensional lens spaces mod 2^r. **89e:55011**

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55R55 Fiberings with singularities

Ue, Masaaki On the 4-dimensional Seifert fiberings with Euclidean base orbifolds. **89c:55015**

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Saito, Kazuo (*with* Watabe, Tsuyoshi) A remark on the existence of geometries on 4-dimensional aspherical Seifert fiber spaces. **89d:57059**

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Yamasaki, Masayuki Lattices of a Lie group and Seifert fibrations. **89h:22021**

55R60 Microbundles and block bundles [see also 57N55, 57Q50]

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55R65 Generalizations of fiber spaces and bundles

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Yagasaki, Tatsuhiko Fiber shape theory, shape fibrations and movability of maps. **89c:55016**

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Raghavan, T. G. On equivariant homotopy, Hopf G-spaces and equivariant Spanier-Whitehead theorem. **89e:55020**

55R91 Equivariant fiber spaces and bundles

Fadell, Edward (*with* Husseini, Sufian) Index theory for G-bundle pairs with applications to Borsuk-Ulam type theorems for G-sphere bundles. **89g:55029**

Husseini, Sufian *see* **Fadell, Edward, 89g:55029**

Lashof, R. K. (*with* May, J. P.) Generalized equivariant bundles. **89e:55036**

Lyubarskiĭ, M. G. Motions in vector G-bundles (linear extensions) that are locally bounded and locally disjoint from zero. (Russian) **89k:55035**

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öllänen, Vesa Equivariant fibre bundles: a local coordinate approach. **89k:55036**

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Kozlowski, Andrzej Delooping the total Stiefel-Whitney class. **89a:55008**

Prema, G. (*with* Kiranagi, B. S.) Lie algebra bundles defined by Jordan algebra bundles. **89d:17028**

Wu, Wen Jun ★ Rational homotopy type. **89d:55030**

55Sxx Operations and obstructions

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55S10 Steenrod algebra

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Bruner, Robert An example in the cohomology of augmented algebras. **89i:55013**

Goerss, Paul G. (*with* Smith, Larry; Zarati, S.) Sur les A-algèbres instables. [On unstable A-algebras] **89a:55031**

Hiller, Howard (*with* Smith, Larry) On the realization and classification of cyclic extensions of polynomial algebras over the Steenrod algebra. **89c:55017**

Kulich, James The action of the Dickson invariants on length n Steenrod operations. **89b:55019**

Lannes, Jean (*with* Zarati, S.) Sur les $\mathscr{U}$-injectifs. (English summary) [$\mathscr{U}$-injectives] **89a:55032**

— (*with* Schwartz, Lionel) On the structure of the $\mathscr{U}$-injectives. **89h:55029**

— Sur la cohomologie modulo p des p-groupes abéliens élémentaires. [The cohomology modulo p of elementary abelian p-groups] **89e:55037**

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Vogel, Pierre A solution of the Steenrod problem for G-Moore spaces. **89e:57033**

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55S25 K-theory operations and generalized cohomology operations [see also 19D99, 19L99]

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Kultze, R. (*with* Würgler, U.) The algebra $k(n)_*(k(n))$ for the prime 2. **89k:55037**

Păunescu, Laurenţiu Natural transformations of complex K-theory. (Romanian. English summary) **89a:55033**

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55S30 Massey products

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Pazhitnov, A. V. Proof of a conjecture of Novikov on homology with local coefficients over a field of finite characteristic. **89g:55009**

55S35 Obstruction theory

Junod, Bernard Quelques résultats de non-immersion des espaces lenticulaires $L^n(2^m)$. (English summary) [Some nonimmersion results for the lens spaces $L^n(2^m)$] **89g:55030**

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Goerss, Paul G. (*with* Smith, Larry) Towers and injective cohomology algebras. **89i:55002**

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55S36 Extension and compression of mappings

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55S37 Classification of mappings

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Rutter, John W. The group of homotopy self-equivalence classes using an homology decomposition. **89d:55016**

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55S40 Sectioning fiber spaces and bundles

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Li, Bang He Immersions of manifolds and stable normal bundles. **89a:57038**

— Normal vector fields of immersions of n-manifolds in $(2n-1)$-manifolds. **89h:57024**

Marshak, R. E. *see* **Okubo, Susumu; et al., 89g:53109**

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Tosa, Y. *see* **Okubo, Susumu; et al., 89g:53109**

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55S45 Postnikov systems, k-invariants

Dydak, Jerzy (*with* Geoghegan, Ross) Correction to: "The singular cohomology of the inverse limit of a Postnikov tower is representable" [Proc. Amer. Math. Soc. **98** (1986), no. 4, 649–654; MR 87m:55024]. **89d:55049**

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Dwyer, W. G. (*with* Kan, D. M.; Smith, Jeffrey H.) Towers of fibrations and homotopical wreath products. **89k:55009**

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55S91 Equivariant operations and obstructions

Smith, Justin R. The equivariant structure of Eilenberg-Mac Lane spaces. I. The Z-torsion free case. **89g:55031**

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55Txx Spectral sequences [see also 18G40, 55R20]

55T05 General

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55T10 Serre spectral sequences

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55T15 Adams spectral sequences

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Singer, William M. On the Λ-algebra and the homology of symmetric groups. **89c:55020**

Vershinin, V. V. (*with* Gorbunov, V. G.) A quadrangle of spectral sequences. (Russian) **89b:55020**

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Baker, Andrew Combinatorial and arithmetic identities based on formal group laws. **89f:55012**

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Greenlees, J. P. C. How blind is your favourite cohomology theory? **89j:55001**

— Stable maps into free G-spaces. **89j:55010**

Iwase, Norio Certain missing terms in an unstable Adams spectral sequence. **89i:55003**

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Magalhães, Luisa Existence of A_∞ weak homotopy equivalences between spectra for U-bordism with singularities. **89k:55013**

Ravenel, Douglas C. Localization and periodicity in homotopy theory. **89c:55010**

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55T20 Eilenberg-Moore spectral sequences [see also 57T35]

Rubio, Julio (*with* Sergeraert, Francis) Homologie effective et suites spectrales d'Eilenberg-Moore. (English summary) [Effective homology and Eilenberg-Moore spectral sequences] **89j:55016**

Sergeraert, Francis *see* **Rubio, Julio, 89j:55016**

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Félix, Yves (*with* Tanré, Daniel) Formalité d'une application et suite spectrale d'Eilenberg-Moore. [Formalness of a mapping and the Eilenberg-Moore spectral sequence] **89i:55007**

— (*with* Halperin, Stephen; Thomas, Jean-Claude) Gorenstein spaces. **89k:55019**

Halperin, Stephen *see* **Félix, Yves; et al., 89k:55019**

Hunter, Thomas J. On $H_*(\Omega^{n+2}S^{n+1};\mathrm{F}_2)$. **89k:55011**

Tanré, Daniel *see* **Félix, Yves, 89i:55007**

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55T25 Generalized cohomology

Davis, Donald M. The bo-Adams spectral sequence: some calculations and a proof of its vanishing line. **89b:55021**

Legrand, A. Caractérisation des opérations d'algèbres sur les modules différentiels. (English summary) [Characterization of actions of algebras on differential modules] **89f:55021**

Items with secondary classifications in 55T25

Gorbunov, V. G. *see* **Vershinin, V. V., 89b:55020**
Prieto, C. Transfer and the Rothenberg-Steenrod spectral sequences. **89h:55031**
Ucci, J. On the Atiyah-Hirzebruch spectral sequence $H^*(X_n;\mathbf{Z}/p) \Rightarrow \underleftarrow{K}^*(X_n;\mathbf{Z}/p)$, X_n a $K(\mathbf{Z}/p,n)$. **89b:55017**
Vershinin, V. V. (*with* Gorbunov, V. G.) A quadrangle of spectral sequences. (Russian) **89b:55020**

55T99 None of the above, but in this section

Prieto, C. Transfer and the Rothenberg-Steenrod spectral sequences. **89h:55031**

Items with secondary classifications in 55T99

Antoniano, E. (*with* Gitler, S.; Ucci, J.; Zvengrowski, P.) On the K-theory and parallelizability of projective Stiefel manifolds. **89g:57058**
Gitler, S. *see* **Antoniano, E.; et al., 89g:57058**
Grandis, Marco Convergence in homological algebra. (Italian summary) **89f:18012**
Ucci, J. *see* **Antoniano, E.; et al., 89g:57058**
Zvengrowski, P. *see* **Antoniano, E.; et al., 89g:57058**

55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

Items with secondary classifications in 55U05

Björner, Anders (*with* Frankl, Peter; Stanley, Richard P.) The number of faces of balanced Cohen-Macaulay complexes and a generalized Macaulay theorem. **89d:52012**
Frankl, Peter *see* **Björner, Anders; et al., 89d:52012**
Stanley, Richard P. *see* **Björner, Anders; et al., 89d:52012**

55U10 Semisimplicial complexes

Items with secondary classifications in 55U10

Ashley, N. Simplicial T-complexes and crossed complexes: a nonabelian version of a theorem of Dold and Kan. **89k:55028**
(Brown, Ronald) *see* **Ashley, N., 89k:55028**
Dror Farjoun, E. (*with* Zabrodsky, A.) The homotopy spectral sequence for equivariant function complexes. **89i:55016**
Dwyer, W. G. (*with* Kan, D. M.) Equivalences between homotopy theories of diagrams. **89d:55051**
— (*with* Kan, D. M.; Smith, Jeffrey H.) Towers of fibrations and homotopical wreath products. **89k:55009**
Gerstenhaber, Murray (*with* Schack, Samuel D.) The cohomology of presheaves of algebras. I. Presheaves over a partially ordered set. **89k:16052**
Johnson, Michael (*with* Walters, R. F. C.) On the nerve of an n-category. (French summary) **89e:18014**
Kan, D. M. *see* **Dwyer, W. G., 89d:55051** *and* **89k:55009**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 89k:16052**
Singer, William M. On the Λ-algebra and the homology of symmetric groups. **89c:55020**
Smith, Jeffrey H. *see* **Dwyer, W. G.; et al., 89k:55009**
Walters, R. F. C. *see* **Johnson, Michael, 89e:18014**
Zabrodsky, A. *see* **Dror Farjoun, E., 89i:55016**

55U15 Chain complexes

Kadeishvili, T. V. The functor D for a category of $A(\infty)$-algebras. (Russian. English and Georgian summaries) **89b:55022**
Zarelua, A. V. Locally homotopically contractible differential graded sheaves. (Russian) **89b:55023**

Items with secondary classifications in 55U15

Alcalde-Cuesta, Fernando (*with* Gómez-Tato, A.; Macías, Enrique) The Godbillon homology. (Spanish. English summary) **89k:57057**
Assadi, Amir H. Some local-global results in finite transformation groups. **89g:57053**
Batanin, M. A. Mappings of spectral sequences and the generalized homotopy axiom. (Russian) **89i:55014**
Gómez-Tato, A. *see* **Alcalde-Cuesta, Fernando; et al., 89k:57057**
Macías, Enrique *see* **Alcalde-Cuesta, Fernando; et al., 89k:57057**
Pirashvili, T. I. Models for the homotopy theory and cohomology of small categories. (Russian. English and Georgian summaries) **89j:18005**

55U20 Universal coefficient theorems, Bockstein operator

Items with secondary classifications in 55U20

Madsen, Ib (*with* Rosenberg, Jonathan) The universal coefficient theorem for equivariant K-theory of real and complex C^*-algebras. **89m:46109**
Rosenberg, Jonathan *see* **Madsen, Ib, 89m:46109**

55U35 Abstract homotopy theory

Dwyer, W. G. (*with* Kan, D. M.) Equivalences between homotopy theories of diagrams. **89d:55051**
Kan, D. M. *see* **Dwyer, W. G., 89d:55051**
Khinich, V. A. (*with* Shekhtman, V. V.) On homotopy limit of homotopy algebras. **89d:55052**
Shekhtman, V. V. *see* **Khinich, V. A., 89d:55052**

Items with secondary classifications in 55U35

Cordier, Jean-Marc (*with* Porter, Timothy) Maps between homotopy coherent diagrams. **89m:55008**
Heller, Alex Homotopy theories. **89b:55013**
Kamps, K. H. Note on the gluing theorem for groupoids and van Kampen's theorem. (French summary) **89c:55012**
Porter, Timothy On the two definitions of Ho(pro C). **89a:18020**
— *see also* **Cordier, Jean-Marc, 89m:55008**

55U40 Topological categories

Items with secondary classifications in 55U40

Aubry, Marc (*with* Lemaire, Jean-Michel) Homotopies d'algèbres de Lie et de leurs algèbres enveloppantes. [Homotopies of Lie algebras and their enveloping algebras] **89k:55018**
Lemaire, Jean-Michel *see* **Aubry, Marc, 89k:55018**
Sun, Shu Hao Reflection of compact, regular, extremally disconnected locales. (Chinese. English summary) **89i:18009**

55U99 None of the above, but in this section

Items with secondary classifications in 55U99

Anick, David J. Generic algebras and CW complexes. **89a:55011**
Boukraa, S. The BRS algebra of a free minimal differential algebra. **89k:17034**
Kawauchi, Akio On the integral homology of infinite cyclic coverings of links. **89g:57007**
Lannes, Jean Sur la cohomologie modulo p des p-groupes abéliens élémentaires. [The cohomology modulo p of elementary abelian p-groups] **89e:55037**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

Items with secondary classifications in 57–XX

Mĕdnikh, A. D. Maximal discrete extensions of Lanner groups. (Ukrainian. Russian summary) (Not in MR)

57–01 Elementary exposition; textbooks

Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) ★ Topología diferencial. (Spanish) [Differential topology] **89d:57001**
Outerelo Domínguez, Enrique *see* **Margalef Roig, Juan, 89d:57001**

Items with secondary classifications in 57–01

(Antelmann, Horst) *see* **Dieudonné, Jean, 89b:58001**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 9. (German) [Foundations of modern analysis. 9] **89b:58001**
Fomenko, A. T. ★ Differential geometry and topology. **89b:58003**
— *see also* **Mishchenko, A. S., 89m:53001**
Gorbatsevich, V. V. (*with* Onishchik, A. L.) Lie groups of transformations. (Russian) (*see* **89m:22010**)
Kauffman, Louis H. ★ On knots. **89c:57005**
(Leĭtes, D. A.) *see* **Fomenko, A. T., 89b:58003**
Mishchenko, A. S. (*with* Fomenko, A. T.) ★ A course of differential geometry and topology. **89m:53001**
Onishchik, A. L. *see* **Gorbatsevich, V. V., (89m:22010)**
(Talashev, Anatoly) *see* **Mishchenko, A. S., 89m:53001**

57–02 Advanced exposition (research surveys, monographs, etc.)

Donaldson, Simon The geometry of 4-manifolds. **89d:57002**

Items with secondary classifications in 57–02

Cappell, Sylvain (*with* Weinberger, Shmuel) Which H-spaces are manifolds? I. **89k:57066**
Daverman, Robert J. Decompositions into submanifolds of fixed codimension. **89k:57036**
tom Dieck, Tammo ★ Transformation groups. **89c:57048**
Freed, Daniel S. (*with* Uhlenbeck, Karen Keskulla) ★ Инстантоны и четырехмерные многообразия. (Russian) [Instantons and four-manifolds] **89e:57027**
(Freedman, Michael H.) *see* **Milnor, John, 89d:01064**
Jones, Gareth A. (*with* Singerman, David) ★ Complex functions. **89b:30001**
Kauffman, Louis H. ★ On knots. **89c:57005**
Madsen, Ib (*with* Rothenberg, Mel) On the homotopy theory of equivariant automorphism groups. **89g:57034**
Milnor, John The work of M. H. Freedman. **89d:01064**
Rothenberg, Mel *see* **Madsen, Ib, 89g:57034**
Singerman, David *see* **Jones, Gareth A., 89b:30001**
(Solov'ëv, Yu. P.) *see* **Freed, Daniel S., 89e:57027**
Uhlenbeck, Karen Keskulla *see* **Freed, Daniel S., 89e:57027**
Weinberger, Shmuel Class numbers, the Novikov conjecture, and transformation groups. **89h:57030**
— *see also* **Cappell, Sylvain, 89k:57066**

57-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 57-03

Atiyah, Michael On the work of Simon Donaldson. **89d:01055**
(Brouwer, L. E. J.) *see* **Johnson, Dale M.**, (**89b:01002**)
(Donaldson, Simon) *see* **Atiyah, Michael, 89d:01055**
Hansen, Vagn Lundsgaard From geometry to topology. (Danish. English summary) **89b:01042**
Johnson, Dale M. L. E. J. Brouwer's coming of age as a topologist. (*see* **89b:01002**)

57-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57-04

Banchoff, T. F. Visualizing two-dimensional phenomena in four-dimensional space: a computer graphics approach. **89a:58001**
Koçak, H. (*with* Laidlaw, David) Computer graphics and the geometry of S^3. **89d:58001**
Laidlaw, David *see* **Koçak, H., 89d:58001**
Nicas, Andrew J. (*with* Stark, C. W.) Whitehead groups of certain hyperbolic manifolds. II. **89a:57017**
Stark, C. W. *see* **Nicas, Andrew J., 89a:57017**

57-06 Proceedings, conferences, etc.

(tom Dieck, Tammo) *see* **Algebraic topology and transformation groups, 89g:57001**
(Koschorke, Ulrich) *see* **Differential topology, 89g:57002**
(Rokhlin, V. A.) *see* **Seminar: Topology and Geometry, 89f:57001**
(Viro, O. Ya.) *see* **Seminar: Topology and Geometry, 89f:57001**

Items listed otherwise than by author

Algebraic topology and transformation groups ★ Algebraic topology and transformation groups. **89g:57001**
Conference:
Algebraic Topology and Transformation Groups ★ Algebraic topology and transformation groups. **89g:57001**
Differential topology ★ Differential topology. **89g:57002**
Göttingen ★ Algebraic topology and transformation groups. **89g:57001**
Lecture Notes in Mathematics ★ Topology and geometry—Rohlin Seminar. **89f:57001**
— ★ Algebraic topology and transformation groups. **89g:57001**
— ★ Differential topology. **89g:57002**
Seminar:
Topology and Geometry ★ Topology and geometry—Rohlin Seminar. **89f:57001**
Several problems of lower-dimensional topology and recent results ★ Several problems of lower-dimensional topology and recent results. (Japanese) **89b:57001**
Siegen ★ Differential topology. **89g:57002**
Symposium:
Several Problems of Lower-Dimensional Topology and Recent Results ★ Several problems of lower-dimensional topology and recent results. (Japanese) **89b:57001**
Topology ★ Differential topology. **89g:57002**

Items with secondary classifications in 57-06

(Goldman, William M.) *see* **Geometry of group representations, 89c:20002**
(Kaminker, Jerome) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**
(Magid, Andy R.) *see* **Geometry of group representations, 89c:20002**
(Millett, K. C.) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**
(Schochet, Claude) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**

Items listed otherwise than by author

Boulder, CO ★ Geometry of group representations. **89c:20002**
Conference:
Geometry of Group Representations ★ Geometry of group representations. **89c:20002**
Contemporary Mathematics ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
— ★ Geometry of group representations. **89c:20002**
Geometry of group representations ★ Geometry of group representations. **89c:20002**
Index theory of elliptic operators, foliations, and operator algebras ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Indianapolis, IN ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Meeting:
American Mathematical Society ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
— ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
New Orleans, LA ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Session:
Index Theory and its Applications ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Operator Algebras and Foliations ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Symposium:
Transformation groups and Whitehead groups ★ Transformation groups and Whitehead groups. **89b:00020**
Transformation groups and Whitehead groups ★ Transformation groups and Whitehead groups. **89b:00020**

57Mxx Low-dimensional topology (old 55Axx)

57M05 Fundamental group, presentations, free differential calculus

Gilman, Jane A characterization of finite subgroups of the mapping-class group. **89c:57001**
Goldman, William M. Topological components of spaces of representations. **89m:57001**
Hempel, John Residual finiteness for 3-manifolds. **89b:57002**
Long, D. D. Engulfing and subgroup separability for hyperbolic groups. **89h:57001**
Montesinos, José María Note on a result of Boileau-Zieschang. **89f:57002**
Pak, Jingyal On the subgroups of the fundamental group and the representations. **89h:57002**

Items with secondary classifications in 57M05

Casali, Maria Rita (*with* Grasselli, Luigi) Characterizing crystallizations among Lins-Mandel 4-coloured graphs. **89i:57009**
Cavicchioli, Alberto Lins-Mandel 3-manifolds and their groups: a simple proof of the homology sphere conjecture. **89i:57010**
Dold, Albrecht Nullhomologous words in free groups which are not nullhomologous in any proper subgroup. **89f:20035**
Grasselli, Luigi *see* **Casali, Maria Rita, 89i:57009**
Lins, Sóstenes On the fundamental group of 3-gems and a "planar" class of 3-manifolds. **89i:57003**
Stillwell, John The occurrence problem for mapping class groups. **89a:20037**

57M10 Covering spaces

Baker, Mark D. The virtual Z-representability of certain 3-manifold groups. **89k:57001**
Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) On the universal group of the Borromean rings. **89m:57002**
Lozano, María Teresa *see* **Hilden, Hugh M.; et al., 89m:57002**
Montesinos, José María *see* **Hilden, Hugh M.; et al., 89m:57002**
Pitts, Jon T. (*with* Rubinstein, J. Hyam) Applications of minimax to minimal surfaces and the topology of 3-manifolds. **89a:57001**
Rubinstein, J. Hyam *see* **Pitts, Jon T., 89a:57001**

Items with secondary classifications in 57M10

Bestvina, Mladen Degenerations of the hyperbolic space. **89m:57011**
Curtis, D. W. (*with* Miklos, S.) Nonexistence of local expansions on certain continua. **89k:54031**
Kojima, Sadayoshi Finite covers of 3-manifolds containing essential surfaces of Euler characteristic = 0. **89b:57010**
Luft, E. (*with* Sjerve, Denis) Regular coverings of homology 3-spheres by homology 3-spheres. **89k:57030**
Mihalik, Michael L. Semistability at ∞, ∞-ended groups and group cohomology. **89b:20063**
Miklos, S. *see* **Curtis, D. W., 89k:54031**
Myers, Robert Contractible open 3-manifolds which are not covering spaces. **89c:57012**
Öcal, A. A. (*with* Yildiz, C.) On the sheaf of the groups formed by H-groups over pointed topological spaces. **89d:55024**
Sjerve, Denis *see* **Luft, E., 89k:57030**
Teodosiu, Gabi Some analytic dihedral coverings. **89g:32018**
Yildiz, C. *see* **Öcal, A. A., 89d:55024**

57M12 Special coverings, e.g. branched

Chumillas Checa, Valerio (*with* Montesinos, José María) The homology of cyclic and irregular dihedral coverings branched over homology spheres. **89i:57001**
Gabai, David (*with* Kazez, William H.) The classification of maps of surfaces. **89a:57002**
— (*with* Kazez, William H.) The classification of maps of nonorientable surfaces. **89j:57001**
Kazez, William H. *see* **Gabai, David, 89a:57002** *and* **89j:57001**
Lozano, María Teresa (*with* Safont, Carmen) Virtually regular coverings. **89i:57002**
Montesinos, José María On 3-manifolds having surface bundles as branched coverings. **89g:57003**
— *see also* **Chumillas Checa, Valerio, 89i:57001**
Safont, Carmen *see* **Lozano, María Teresa, 89i:57002**

Items with secondary classifications in 57M12

Glover, Henry (*with* Sjerve, Denis) The genus of $\mathrm{PSl}_2(q)$. **89e:20087**
Hansen, Vagn Lundsgaard Algebra and topology of Weierstrass polynomials. **89b:30004**
— A model for embedding finite coverings defined by principal bundles into bundles of manifolds. **89g:55026**
Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) On the universal group of the Borromean rings. **89m:57002**
Kalliongis, John (*with* Miller, Andy) Equivalence and strong equivalence of actions on handlebodies. **89k:57080**
Kawauchi, Akio On the integral homology of infinite cyclic coverings of links. **89g:57007**
Lozano, María Teresa *see* **Hilden, Hugh M.; et al., 89m:57002**
Miller, Andy *see* **Kalliongis, John, 89k:57080**
Mohar, Bojan Branched coverings. **89e:57021**
Montesinos, José María *see* **Hilden, Hugh M.; et al., 89m:57002**
Murasugi, Kunio Correction and addendum: "On the height of 2-component links" [Topology Appl. **19** (1985), no. 3, 227–243; MR 87a:57014]. **89a:57005**
Ruberman, Daniel The Casson-Gordon invariants in high-dimensional knot theory. **89g:57031**
Sjerve, Denis *see* **Glover, Henry, 89e:20087**
Symonds, Peter The cohomology representation of an action of C_p on a surface. **89b:57021**
Takeuchi, Yoshihiro A classification of a class of 3-branchfolds. **89g:57018**

57M15 Relations with graph theory [see also 05Cxx]

Ferri, Massimo (*with* Gagliardi, Carlo) Multiple residues in dimension three. **89h:57003**
Gagliardi, Carlo *see* **Ferri, Massimo, 89h:57003**
Lavrenchenko, S. A. Irreducible triangulations of a torus. (Russian) **89c:57002**
Lins, Sóstenes On the fundamental group of 3-gems and a “planar” class of 3-manifolds. **89i:57003**
Vince, A. n-graphs. **89k:57002**

Items with secondary classifications in 57M15

Bodendiek, R. (*with* Wagner, Klaus[1]) The fascination of minimal graphs. **89m:05047**
Cavicchioli, Alberto A combinatorial characterization of $S^3 \times S^1$ among closed 4-manifolds. **89h:57011**
Corn, David (*with* Singerman, David) Regular hypermaps. **89e:05075**
Fellows, Michael R. (*with* Hickling, F.; Sysło, Maciej M.) A topological parameterization and hard graph problems (extended abstract). **89i:05102**
Flapan, Erica Chirality of nonstandardly embedded Möbius ladders. **89h:92081**
— Symmetries of knotted hypothetical molecular graphs. **89g:92080**
Frank, George Templates and train tracks. **89i:58112**
Hartsfield, Nora (*with* Ringel, Gerhard) Minimal quadrangulations of orientable surfaces. **89m:05048**
Hickling, F. *see* **Fellows, Michael R.; et al., 89i:05102**
Ishii, Ippei Flow-spines and Seifert fibred structure of 3-manifolds. **89h:57009**
Jaeger, François Tutte polynomials and link polynomials. **89i:57004**
James, Lynne D. Complexes and Coxeter groups—operations and outer automorphisms. **89c:20055**
Jonish, David P. (*with* Millett, K. C.) Extrinsic topological chirality indices of molecular graphs. **89j:92098**
Kalliongis, John (*with* Miller, Andy) Equivalence and strong equivalence of actions on handlebodies. **89k:57080**
Kauffman, Louis H. ★ Map reformulation. **89j:05033**
Miller, Andy *see* **Kalliongis, John, 89k:57080**
Millett, K. C. *see* **Jonish, David P., 89j:92098**
Murasugi, Kunio On invariants of graphs with applications to knot theory. **89k:57016**
Ringel, Gerhard *see* **Hartsfield, Nora, 89m:05048**
Shimabara, Miki Knots in certain spatial graphs. **89k:57018**
Simon, Jonathan K. A topological approach to the stereochemistry of nonrigid molecules. **89m:92067**
Singerman, David *see* **Corn, David, 89e:05075**
Sysło, Maciej M. *see* **Fellows, Michael R.; et al., 89i:05102**
Wagner, Klaus[1] *see* **Bodendiek, R., 89m:05047**
Xie, Li Tong A supplement to the paper: “Methods of algebraic topology applied to the theory of graphs and matroids” [Adv. in Math. (Beijing) 12 (1983), no. 3, 179–192; MR 86c:05062]. (Chinese. English summary) **89a:05060**

57M20 Two-dimensional complexes

Damphousse, Pierre Fondement de la description combinatoire des cartes cellulaires. (English summary) [Foundations of the combinatorial description of cellular maps] **89d:57003**
Matveev, S. V. The Zeeman conjecture for nonthickenable special polyhedra is equivalent to the Andrews-Curtis conjecture. (Russian) **89d:57015**
Piergallini, Riccardo Standard moves for standard polyhedra and spines. **89k:57003**

Items with secondary classifications in 57M20

Brehm, Ulrich Maximally symmetric polyhedral realizations of Dyck’s regular map. **89b:52011**
— A maximally symmetric polyhedron of genus 3 with 10 vertices. **89b:52012**
Gersten, S. M. Reducible diagrams and equations over groups. **89d:20030**
Matveev, S. V. Transformations of special spines, and the Zeeman conjecture. **89d:57014**

57M25 Knots and links in S^3 {For higher dimensions, see 57Q45.}

Adams, Colin C. Augmented alternating link complements are hyperbolic. **89f:57003**
— Tangles and the Gromov invariant. **89k:57004**
Aitchison, Iain R. (*with* Silver, Daniel S.) On certain fibred ribbon disc pairs. **89f:57004**
Akutsu, Yasuhiro (*with* Wadati, Miki) Knots, links, braids and exactly solvable models in statistical mechanics. **89k:57005**
Birman, Joan S. (*with* Kanenobu, Taizo) Jones’ braid-plat formula and a new surgery triple. **89c:57003**
Bleiler, Steven A. (*with* Moriah, Yoav) Heegaard splittings and branched coverings of B^3. **89k:57006**
Boileau, Michel (*with* Flapan, Erica) Uniqueness of free actions on S^3 respecting a knot. **89d:57004**
Boyer, Steven On proper powers in free products and Dehn surgery. **89m:57003**
Cervantes, L. (*with* Fenn, R. A.) Boundary links are homotopy trivial. **89k:57007**
Churchyard, Peter (*with* Spring, David) Proper knot theory in open 3-manifolds. **89k:57008**
Cipra, Barry A. To have and have knot: when are knots alike? **89k:57009**
Dellomo, Michael The inverse limit of the fundamental groups of branched cyclic coverings. **89k:57010**
Dimovski, Dončo A geometric proof that boundary links are homotopically trivial. **89g:57004**
Domergue, Michel *see* **Mathieu, Yves, 89g:57008**
Eudave Muñoz, Mario Primeness and sums of tangles. **89g:57005**
Fenn, R. A. *see* **Cervantes, L., 89k:57007**
Flapan, Erica *see* **Boileau, Michel, 89d:57004**
Floyd, William J. (*with* Hatcher, A.) The space of incompressible surfaces in a 2-bridge link complement. **89c:57004**
Freedman, Michael H. Whitehead$_3$ is a “slice” link. **89h:57004**
Fukuhara, Shinji Energy of a knot. **89f:57005**
Gordon, C. McA. (*with* Luecke, J.) Only integral Dehn surgeries can yield reducible manifolds. **89a:57003**
de la Harpe, Pierre Introduction to knot and link polynomials. **89m:57004**
Hatcher, A. *see* **Floyd, William J., 89c:57004**
Hendriks, Harrie The Alexander polynomial of a knot: a revival. **89k:57011**
Iwase, Zyun’iti (*with* Kiyoshi, Hiroe) Classification of Kanenobu’s knots. **89g:57006**
Jaeger, François Tutte polynomials and link polynomials. **89i:57004**
Johnson, Dennis L. (*with* Livingston, Charles) Peripherally specified homomorphs of knot groups. **89f:57006**
Jones, V. F. R. On knot invariants related to some statistical mechanical models. **89m:57005**
Kanenobu, Taizo Unions of knots as cross sections of 2-knots. **89m:57006**
— *see also* **Birman, Joan S., 89c:57003**
Kauffman, Louis H. ★ On knots. **89c:57005**
— Statistical mechanics and the Jones polynomial. **89j:57002**
— New invariants in the theory of knots. **89d:57005**
— Invariants of graphs in three-space. **89f:57007**
Kawauchi, Akio On the integral homology of infinite cyclic coverings of links. **89g:57007**
— Imitation of (3, 1)-dimensional manifold pairs. (Japanese) **89j:57003**
Kearton, C. Mutation of knots. **89e:57001**
Kidwell, Mark E. On the degree of the Brandt-Lickorish-Millett-Ho polynomial of a link. **89b:57003**
Kiyoshi, Hiroe *see* **Iwase, Zyun’iti, 89g:57006**
Kojima, Sadayoshi Determining knots by branched covers. **89f:57008**
Kuga, Ken’ichi A note on Dehn surgery on links and divisors of varieties of group representations. **89k:57012**
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— An upper bound for the breadth of the Jones polynomial. **89f:57011**
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Tsau, Chichen M. Isomorphisms and peripheral structure of knot groups. **89j:57005**
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Chumillas Checa, Valerio (*with* Montesinos, José María) The homology of cyclic and irregular dihedral coverings branched over homology spheres. **89i:57001**
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Flapan, Erica Chirality of nonstandardly embedded Möbius ladders. **89h:92081**
— Symmetries of knotted hypothetical molecular graphs. **89g:92080**
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Kuiper, Nicolaas H. (*with* Meeks, W. H., III) The total curvature of a knotted torus. **89c:53003**
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57M30 Wild knots and surfaces, etc., wild imbeddings

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57M35 Dehn's lemma, sphere theorem, loop theorem, asphericit

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Floyd, William J. Incompressible surfaces in 3-manifolds: the space of boundary curves. **89f:57019**
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57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [see also 57N12]

Grasselli, Luigi Simple contracted complexes are nonshellable. **89a:57008**
Montesinos, José María Two questions on Heegaard diagrams of S^3. **89f:57012**
Rêgo, Eduardo (*with* Rourke, Colin) Heegaard diagrams and homotopy 3-spheres. **89k:57019**
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Myers, Robert Contractible open 3-manifolds which are not covering spaces. **89c:57012**
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57M99 None of the above, but in this section

Bestvina, Mladen Degenerations of the hyperbolic space. **89m:57011**
Birman, Joan S. (*with* Series, C.) Algebraic linearity for an automorphism of a surface group. **89j:57006**
Bowditch, B. H. (*with* Epstein, D. B. A.) Natural triangulations associated to a surface. **89e:57004**
Danthony, Claude (*with* Nogueira, Arnaldo) Involutions linéaires et feuilletages mesurés. (English summary) [Linear involutions and measured foliations] **89k:57020**
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Hatcher, A. Measured lamination spaces for surfaces, from the topological viewpoint. **89k:57022**
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Ivanov, N. V. Algebraic properties of mapping class groups of surfaces. **89a:57009**
— Automorphisms of Teichmüller modular groups. **89m:57012**
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Penner, R. C. An introduction to train tracks. **89e:57005**
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Tchangang, Roger Tambekou Le groupe d'automorphismes du groupe modulaire. (English summary) [The automorphism group of the modular group] **89e:57006**
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Danthony, Claude Feuilletages orientés des surfaces: le problème de la section globale. (English summary) [Oriented foliations of surfaces: the global section problem] **89g:57038**
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Matveev, S. V. The complexity of geometric manifolds. (Russian) **89k:57031**
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McCarthy, John David (*with* Papadopoulos, Athanase) Involutions in surface mapping class groups. **89a:57010**
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Morita, Shigeyuki Characteristic classes of surface bundles. **89e:57022**
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Pride, Stephen J. Star-complexes, and the dependence problems for hyperbolic complexes. **89k:20049**
Ritter, Gerhard X. Topology of computer vision. **89m:92059**
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Sienra L., Guillermo The Thurston class of certain Dehn twists. **89a:57011**
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57Nxx Topological manifolds

57N05 Topology of E^2, 2-manifolds

Andrews, Peter Gordon The classification of surfaces. **89k:57024**
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Casson, Andrew J. (*with* Bleiler, Steven A.) ★ Automorphisms of surfaces after Nielsen and Thurston. **89k:57025**
Johnson, F. E. A. On surface Bieberbach groups. **89d:57013**
McCarthy, John David (*with* Papadopoulos, Athanase) Involutions in surface mapping class groups. **89a:57010**
Mosher, Lee The classification of pseudo-Anosovs. **89f:57016**
Papadopoulos, Athanase *see* **McCarthy, John David, 89a:57010**
Penner, R. C. A construction of pseudo-Anosov homeomorphisms. **89k:57026**
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Andreian Cazacu, Cabiria Interior transformations between Klein surfaces. **89g:30084**
Bujalance, J. A. Orders of the automorphisms of bordered Klein surfaces of topological genus 1. (Spanish. English summary) **89m:20054**
Chevallier, Benoît Courbes maximales de Harnack et discriminant. [Maximal Harnack curves and the discriminant] **89h:14022**
Dąbrowski, L. (*with* Percacci, R.) Diffeomorphisms, orientation, and Pin structures in two dimensions. **89d:57033**
Etayo Gordejuela, José Javier (*with* Martínez, Ernesto) Hyperbolic polygons and NEC groups. **89m:32037**
Floyd, William J. (*with* Plotnick, Steven P.) Symmetries of planar growth functions. **89f:22016**
Gilman, Jane A characterization of finite subgroups of the mapping-class group. **89c:57001**
Ivanov, N. V. Automorphisms of Teichmüller modular groups. **89m:57012**
Kelly, Michael R. Fixed points through homotopies. **89j:55005**
Kourouniotis, Christos Deformations of hyperbolic manifolds obtained by bending. (*see* **89b:53003**)
Long, D. D. Bounding laminations. **89k:57041**
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Mosher, Lee Tiling the projective foliation space of a punctured surface. **89f:57014**
Penner, R. C. The Schottky problem on pants. **89k:30009**
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Plotnick, Steven P. *see* **Floyd, William J., 89f:22016**
Porter, R. Michael Topography, topology and Riemann surfaces. (Spanish) (*see* **89k:00008**)
Repovš, Dušan Ambient isotopies in topological manifolds which respect open coverings. **89h:57013**
Series, C. Symbolic dynamics for geodesic flows. **89j:58107**

57N10 Topology of general 3-manifolds [see also 57Mxx]

Betley, S. (*with* Przytycki, Józef H.; Żukowski, T.) Hyperbolic structures on Dehn filling of some punctured-torus bundles over S^1. **89f:57017**
Boileau, Michel (*with* Rost, Markus; Zieschang, Heiner) On Heegaard decompositions of torus knot exteriors and related Seifert fibre spaces. **89a:57013**
Bonahon, Francis (*with* Otal, Jean-Pierre) Variétés hyperboliques à géodésiques arbitrairement courtes. (English summary) [Hyperbolic manifolds with arbitrarily short geodesics] **89g:57012**
Braam, Peter J. A Kaluza-Klein approach to hyperbolic three-manifolds. **89m:57013**
Brin, Matthew G. (*with* Thickstun, T. L.) Open, irreducible 3-manifolds which are end 1-movable. **89f:57018**
Canary, R. D. (*with* Epstein, D. B. A.; Green, Paul) Notes on notes of Thurston. **89e:57008**
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— Hierarchies for 3-orbifolds. **89h:57008**
Epstein, D. B. A. *see* **Canary, R. D.; et al., 89e:57008**
Floer, Andreas An instanton-invariant for 3-manifolds. **89k:57028**
Floyd, William J. Incompressible surfaces in 3-manifolds: the space of boundary curves. **89f:57019**
Gabai, David Foliations and the topology of 3-manifolds. II. **89a:57014a**
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Gómez-Larrañaga, José Carlos 3-manifolds which are unions of three solid tori. **89a:57015**
Green, Paul *see* **Canary, R. D.; et al., 89e:57008**
Hamstrom, Mary-Elizabeth Homeotopy groups of 3-manifolds—an isomorphism theorem. **89c:57008**
Heil, Wolfgang (*with* Tollefson, Jeffrey L.) On Nielsen's theorem for 3-manifolds. **89c:57009**
Hempel, John Coverings of Dehn fillings of surface bundles. II. **89j:57008**
Ishii, Ippei Combinatorial construction of a nonsingular flow on a 3-manifold. **89c:57010**
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Jaco, William (*with* Rubinstein, J. Hyam) PL minimal surfaces in 3-manifolds. **89e:57009**
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Johannson, Klaus Classification problems in low-dimensional topology. **89f:57020**
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Kakimizu, Osamu Finding boundary for the semistable ends of 3-manifolds. **89b:57008**
Kobayashi, Tsuyoshi Pseudo-Anosov homeomorphisms which extend to orientation reversing homeomorphisms of S^3. **89b:57009**
— Heights of simple loops and pseudo-Anosov homeomorphisms. **89m:57015**
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Kojima, Sadayoshi Finite covers of 3-manifolds containing essential surfaces of Euler characteristic $= 0$. **89b:57010**
Long, D. D. Immersions and embeddings of totally geodesic surfaces. **89g:57014**
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— (*with* Sjerve, Denis) Regular coverings of homology 3-spheres by homology 3-spheres. **89k:57030**
Matsumoto, Shigenori Topological entropy and Thurston's norm of atoroidal surface bundles over the circle. **89c:57011**
Matveev, S. V. Generalized surgeries of three-dimensional manifolds and representations of homology spheres. (Russian) **89g:57015**
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— The theory of the complexity of three-dimensional manifolds. (Russian) **89k:57032**
— Transformations of special spines, and the Zeeman conjecture. **89d:57014**
McCullough, Darryl Mappings of reducible 3-manifolds. **89f:57021**
Montesinos, José María ★ Classical tessellations and three-manifolds. **89d:57016**
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57Qxx PL-topology

57Q05 The general topology of complexes

Cavicchioli, Alberto Generalized handles in graphs and connected sums of manifolds. **89a:57026**

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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

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Pedersen, Erik Kjaer *see* **Ewing, John; et al., 89c:57021**

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Araki, Shôrô Equivariant Whitehead groups and G-expansion categories. **89e:55024**

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57Q12 Wall finiteness obstruction for CW-complexes

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57Q15 Triangulating manifolds

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Barnette, D. W. (*with* Edelson, Allan) All orientable 2-manifolds have finitely many minimal triangulations. **89e:57018**

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Grasselli, Luigi *see* **Casali, Maria Rita, 89i:57009**

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Vince, A. *n*-graphs. **89k:57002**

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

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Magro, Gaetano *see* **Dragotti, Sara, 89e:57019**

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Sakai, Katsuro Simplicial complexes triangulating infinite-dimensional manifolds. **89g:57022**

57Q35 Imbeddings and immersions

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Kawauchi, Akio The imbedding problem of 3-manifolds into 4-manifolds. **89g:57042**

Kranjc, Marko Embedding 2-complexes in $\mathbf{R}^4$. **89f:57023**

Marumoto, Yoshihiko Some higher-dimensional knots. **89e:57020**

Vrabec, Jože Deforming a PL submanifold of Euclidean space into a hyperplane. **89g:57029**

57Q37 Isotopy

Vrabec, Jože Deforming a PL submanifold of Euclidean space into a hyperplane. **89g:57029**

57Q40 Regular neighborhoods

Repovš, Dušan Regular neighbourhoods of homotopically PL embedded compacta in 3-manifolds. **89h:57017**

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Boyle, Jeffrey Classifying 1-handles attached to knotted surfaces. **89f:57032**

Cochran, Tim D. Link concordance invariants and homotopy theory. **89f:57033**

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Kearton, C. *see* **Hillman, J. A., 89j:57015**

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Szczepanski, Susan Cobordism of algebraic knots. **89k:57047**

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Gau, Yih-Nan Embedded topological classification of quasi-ordinary singularities. **89m:14002**

Jambu, Michel Yves Arrangements d'hyperplans. I. Les groupes de réflexions. (English summary) [Arrangements of hyperplanes. I. Reflection groups] **89f:32022**

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Lipman, Joseph Topological invariants of quasi-ordinary singularities. **89m:14001**

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Ozawa, Tetsuya On the numbers of *n*-tangencies of polygons in odd-dimensional Euclidean spaces. **89k:57017**

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57Q55 Approximations

Dragotti, Sara (*with* Magro, Gaetano) $\mathscr{L}$-manifolds and cone-dual maps. **89j:57018**

Magro, Gaetano *see* **Dragotti, Sara, 89j:57018**

57Q60 Cobordism and concordance

Domínguez Murillo, Eladio An extension of PL-cobordism. **89f:57036**

Quintero, A. Some results on the bordism of homology manifolds. (Spanish. English summary) **89c:57026**

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Cappell, Sylvain (*with* Ruberman, Daniel) Imbeddings and homology cobordisms of lens spaces. **89c:57040**

Márquez, Alberto Groupes d'homotopie propre et uniformément continue. (English summary) [Uniformly continuous and proper homotopy groups] **89k:55023**

Ruberman, Daniel *see* **Cappell, Sylvain, 89c:57040**

Shibuya, Tetsuo On the cobordism of links with two components in a solid torus. **89b:57006**

Steinberger, Mark PL fibrations are fibrations in the PL category. **89j:57013**

57Q65 General position and transversality

Quintero, A. Homology manifolds and PL-transversality. **89d:57031**

Items with secondary classifications in 57Q65

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57Q91 Equivariant PL-topology

Webb, David L. Equivariantly finite manifolds with no handle structure. **89k:57048**

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Steinberger, Mark (*with* West, James) On the geometric topology of locally linear actions of finite groups. **89d:57055**

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57Q99 None of the above, but in this section

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Mohar, Bojan Branched coverings. **89e:57021**

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57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

57R05 Triangulating

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57R10 Smoothing

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57R15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)

Bugajska, Krystyna Lorentzian structures of open, spin manifolds. **89k:57050**
Cordero, Luis A. (*with* Moreiras, B. R.) On some compact four-dimensional parallelizable nilmanifolds. (Italian summary) **89b:57015**
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Kwak, Jin Ho π-manifold which is not productive. **89f:57037**
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— (*with* Miller, Edward Y.; Weintraub, Steven H.) Rochlin invariants, theta functions and the holonomy of some determinant line bundles. **89m:57022**
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Goldman, William M. (*with* Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. **89f:53100**
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Kucharz, W. Real algebraic curves and complete intersections. **89g:14013**
Lemaire, L. La géométrie des variétés de dimension quatre. [The geometry of four-dimensional manifolds] **89f:57024**
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Shiota, Masahiro ★ Nash manifolds. **89b:58011**
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Thomas, C. B. Contact structures on $(n-1)$-connected $(2n+1)$-manifolds. **89b:53074**

57R19 Algebraic topology of manifolds

Akbulut, S. (*with* King, Henry Churchill) Polynomial equations of immersed surfaces. **89c:57028**
King, Henry Churchill *see* **Akbulut, S., 89c:57028**
Madsen, Ib (*with* Rothenberg, Mel) On the homotopy theory of equivariant automorphism groups. **89g:57034**
Markl, Martin The integral cohomology rings of real infinite-dimensional flag manifolds. **89h:57019**
— A computation of the integral cohomology rings of real infinite-dimensional flag manifolds. **89h:57018**
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Sharko, V. V. Morse numbers and minimal Morse functions on non-simply connected manifolds. **89f:57038**

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Bieri, Robert (*with* Neumann, Walter D.; Strebel, Ralph) A geometric invariant of discrete groups. **89b:20108**
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Hambleton, I. (*with* Kreck, Matthias) Smooth structures on algebraic surfaces with cyclic fundamental group. **89a:57043**
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Sato, Hajime (*with* Bando, Shigetoshi) Hill's equation, isomonodromy deformation and characteristic classes. **89m:58076**
Schoen, Richard M. (*with* Yau, S.-T.) Conformally flat manifolds, Kleinian groups and scalar curvature. **89c:58139**
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57R20 Characteristic classes and numbers

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Fiedler, Thomas A characteristic class for totally real surfaces in the Grassmannian of two-planes in four-space. **89c:57029**
Gilkey, Peter B. The eta invariant and equivariant Spin^c bordism for spherical space form groups. **89k:57052**
Gunawardena, Jeremy Stiefel-Whitney classes for representations of groups. **89g:57036**
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Korbaš, Július Note on Stiefel-Whitney classes of flag manifolds. **89k:57053**
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Lee, K. A. (*with* Lee, Hong Jae; Lee, He. J.; Chun, D. S.; Jeon, W.-K.; Kim, Yong-Woon; Kim, I. S.) A note on the Chern classes. **89a:57030**
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Rempała, Jan A. On the Chern character of glued bundles. **89k:57054**
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Wu, Wen Jun On Chern numbers of algebraic varieties with arbitrary singularities. **89d:57036**

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— Homology of the intersections of real quadrics. **89h:14020**
Audin, Michèle Classes caractéristiques lagrangiennes. [Lagrangian characteristic classes] **89a:58036**
Avron, J. E. (*with* Sadun, L.; Segert, J.; Simon, Barry) Topological invariants in Fermi systems with time-reversal invariance. **89f:81063**
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— (*with* Gonzalez-Sprinberg, Gerardo) Sur l'homologie d'intersection et les classes de Chern des variétés singulières (espaces de Thom, exemples de J.-L. Verdier et M. Goresky). [On the homology of intersection and Chern classes of singular varieties (Thom spaces, examples of J.-L. Verdier and M. Goresky)] **89h:32030**
Bruzzo, Ugo *see* **Bartocci, Claudio, 89k:58023**
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— (*with* Liu, Zong Ze) The relationship between the cobordism classes of manifolds with involution and the cobordism classes of their fixed point sets. (Chinese) (Not in MR)
Yue, Qing Qi Manifolds with an involution whose fixed point set has constant codimension. (Chinese) **89j:57032**

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Dovermann, Karl Heinz Cyclic group actions on complex projective spaces. **89j:57035**
— (*with* Rothenberg, Mel) Equivariant surgery and classifications of finite group actions on manifolds. **89h:57032**
Kawakubo, Katsuo *see* **Araki, Shôrô, 89f:57048**
Rothenberg, Mel *see* **Dovermann, Karl Heinz, 89h:57032**
Stolz, S. Exotic structures on 4-manifolds detected by spectral invariants. **89j:57027**
Wu, Zhen De Manifolds with involution whose fixed point set is a Dold manifold $P(2m,2n)$. (Chinese) **89g:57052**

57R90 Other types of cobordism [See 55N22]

Aguilar, M. A. (*with* Pastor, Guillermo) On maps cobordant to embeddings. **89f:57049**
Astey, L. (*with* Greenberg, Peter; Micha, E.; Pastor, Guillermo) Some fibred cobordism groups are not finitely generated. **89f:57050**
Fintushel, Ronald (*with* Stern, Ronald John) Rational homology cobordisms of spherical space forms. **89d:57051**
Greenberg, Peter *see* **Astey, L.; et al., 89f:57050**
Micha, E. *see* **Astey, L.; et al., 89f:57050**
Pastor, Guillermo *see* **Aguilar, M. A., 89f:57049** *and* **Astey, L.; et al., 89f:57050**
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Witten, Edward Elliptic genera and quantum field theory. **89i:57017**

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Audin, Michèle ★ Cobordismes d'immersions lagrangiennes et legendriennes. (French) [Cobordisms of Lagrangian and Legendre immersions] **89c:58033**
— Cobordisms of Lagrangian immersions into the cotangent bundle of a manifold. (Russian) **89f:58050**
Giambalvo, V. (*with* Pengelley, David J.; Ravenel, Douglas C.) A fractal-like algebraic splitting of the classifying space for vector bundles. **89c:55014**
Gilkey, Peter B. The eta invariant and equivariant Spin^c bordism for spherical space form groups. **89k:57052**
Mazur, Paweł O. Cobordisms and semiclassical instability of toroidal compactifications. **89b:83082**
Pengelley, David J. *see* **Giambalvo, V.; et al., 89c:55014**
Ravenel, Douglas C. *see* **Giambalvo, V.; et al., 89c:55014**
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57R91 Equivariant algebraic topology of manifolds

Ferry, Steve (*with* Rosenberg, Jonathan; Weinberger, Shmuel) Phénomènes de rigidité topologique équivariante. [Equivariant topological rigidity phenomena] **89f:57051**
Rosenberg, Jonathan *see* **Ferry, Steve; et al., 89f:57051**
Weinberger, Shmuel *see* **Ferry, Steve; et al., 89f:57051**

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Bott, Raoul (*with* Taubes, Clifford Henry) On the rigidity theorems of Witten. **89k:58270**
Rubinsztein, Ryszard L. Equivariantly parallelizable manifolds. **89k:57056**
Taubes, Clifford Henry *see* **Bott, Raoul, 89k:58270**

57R95 Realizing cycles by submanifolds

Kuga, Ken'ichi On immersed 2-spheres in $S^2 \times S^2$. **89c:57047**
Luo, Feng Representing homology classes of $\mathrm{CP}^2 \# \overline{\mathrm{CP}}^2$. **89h:57031**

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Bochnak, J. (*with* Kucharz, W.) Sur les classes d'homologie représentables par des hypersurfaces algébriques réelles. (English summary) [On homology classes represented by real algebraic hypersurfaces] **89b:14032**
Carter, J. Scott Immersed codimension one projective spaces in spherical space forms. **89g:57055**
Ischebeck, Friedrich (*with* Schülting, Heinz-Werner) Rational and homological equivalence for real cycles. **89k:14004**
Kucharz, W. *see* **Bochnak, J., 89b:14032**
Schülting, Heinz-Werner *see* **Ischebeck, Friedrich, 89k:14004**

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Boyer, Charles P. (*with* Mann, Benjamin M.) Monopoles, nonlinear σ models, and two-fold loop spaces. **89g:32030**
Efremov, V. N. (*with* Shchetochkin, V. N.) Application of topological ideas to the quantization of space. (Russian) **89f:81026**
Guaraldo, Francesco An approximation problem for manifolds. (Italian. English summary) **89m:32012**
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Jasiński, Grzegorz A necessary condition for the existence of the extension operator from the Fréchet algebra of Whitney fields on a locally closed subset of $\mathbf{R}^n$. **89g:58023**
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Kock, Anders Synthetic reasoning in differential geometry. **89h:58004**
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Morrison, Kent Connected components of representation varieties. **89k:14079**
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Witten, Edward Topological gravity. **89m:81100**

57Sxx Topological transformation groups [see also 20F34, 22–XX, 54H15, 58D05]

tom Dieck, Tammo ★ Transformation groups. **89c:57048**

57S05 Topological properties of groups of homeomorphisms

Karube, Takashi Fundamental and important conjectures in the theory of topological transformation groups. (Japanese. English summary) **89d:57052**

Items with secondary classifications in 57S05

Komiya, Katsuhiro The Lefschetz number for equivariant maps. **89e:55004**
— Fixed point indices of equivariant maps and Möbius inversion. **89e:55005**
van Mill, Jan A homeomorphism on s not conjugate to an extendable homeomorphism. **89e:54081**

Papadima, Ştefan Rational homotopy equivalences of Lie type. **89g:55018**
Rogulski, Jan S. Stratifications and gauge fields. **89k:58018**
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57S10 Compact groups of homeomorphisms

Antonyan, S. A. G-ANR-resolutions and G-shapes for G-pairs. (Russian. English and Georgian summaries) **89k:57073**
Bauer, Stefan Dimension functions of homotopy representations for compact Lie groups. **89e:57030**
Dimiev, S. G. The circle or the circle group. (Bulgarian. English summary) **89f:57052**
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Items with secondary classifications in 57S10

Bauer, Stefan (*with* Schneider, Albert[1]) Spherical resolutions for compact Lie groups. **89d:57056**
Lyubarskiĭ, M. G. Motions in vector G-bundles (linear extensions) that are locally bounded and locally disjoint from zero. (Russian) **89k:55035**
Schneider, Albert[1] *see* **Bauer, Stefan, 89d:57056**

57S15 Compact Lie groups of differentiable transformations

Dzhermakyan, M. G. A duality theory of Chapman type in spaces of orthogonal representations of a compact Lie group. **89k:57074**
Morimoto, Masaharu S^4 does not have one fixed point actions. **89m:57040**
Pawałowski, Krzysztof Fixed point sets of smooth group actions on disks and Euclidean spaces. A survey. **89g:57051**
Straume, Eldar Weyl groups and the regularity properties of certain compact Lie group actions. **89a:57051**
Verona, Andrei A de Rham type theorem for orbit spaces. **89j:57033**
Wu, Zhen De Manifolds with involution whose fixed point set is a Dold manifold $P(2m, 2n)$. (Chinese) **89g:57052**

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Bauer, Stefan Dimension functions of homotopy representations for compact Lie groups. **89e:57030**
tom Dieck, Tammo Geometric representation theory of compact Lie groups. **89e:57031**
Èl′ Makhi, Saïed Akhmed Kamil′ Volumes of the orbits of the adjoint representation of compact Lie groups. (Russian) **89k:22023**
Fadell, Edward (*with* Wong, Peter Ngai-Sing) On deforming G-maps to be fixed point free. **89d:55003**
Hoffman, Michael E. Homological restrictions on free group actions. **89k:57079**
Iizuka, Kunihiko Finiteness conditions for G-CW complexes. **89a:57027**
Kawakubo, Katsuo An s-cobordism theorem for semifree S^1-manifolds. **89c:57046**
Kowalczyk, Adam The preparation theorem for composite functions. **89a:58017**
Ku, Hsü Tung (*with* Ku, Mei Chin; Mann, L. N.) Isoperimetric inequalities, isometric actions and the higher Newman numbers. **89k:53051**
Ku, Mei Chin *see* **Ku, Hsü Tung; et al., 89k:53051**
Lawson, H. Blaine, Jr. (*with* Yau, Stephen S.-T.) Holomorphic symmetries. **89c:32046**
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Minami, Haruo The real K-groups of SO(n) for $n \equiv 3, 4$ and 5 mod 8. **89g:55006**
Mok, Kam Ping *see* **Wong, Yung Chow, 89m:57024**
Papadima, Ştefan Discrete symmetry, toral symmetry and the Euler characteristic of manifolds. **89f:57055**
Rubinsztein, Ryszard L. A note on the transfer map. **89k:55030**
Solov′ev, M. A. On the geometry of classical mechanics with nonabelian gauge symmetry. (Russian. English summary) **89h:81123**
Tóth, Gábor Toroidal Lie group actions on compact Riemannian manifolds and their relations to the fibering problem. **89j:53043**
Vidal, Antonio On equivariant deformation of maps. **89f:57056**
Wong, Peter Ngai-Sing *see* **Fadell, Edward, 89d:55003**
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Yamakawa, Aiko Fixed-point free SU(n)-actions on acyclic manifolds. **89k:57082**
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57S17 Finite transformation groups

Assadi, Amir H. Some local-global results in finite transformation groups. **89g:57053**
tom Dieck, Tammo Geometric representation theory of compact Lie groups. **89e:57031**
Dovermann, Karl Heinz (*with* Schultz, Reinhard) Surgery of involutions with middle-dimensional fixed point set. **89e:57032**
— (*with* Rothenberg, Mel) Equivariant surgery and classifications of finite group actions on manifolds. **89h:57032**
Edmonds, Allan L. Involutions on odd four-manifolds. **89m:57041**
Hughes, Mark Finite group actions on homotopy complex projective spaces. **89k:57075**
Jackowski, Stefan A fixed-point theorem for p-group actions. **89a:57052**
Kahn, Steven M. Involutions on odd-dimensional manifolds and the de Rham invariant. **89c:57050**
— Involutions on $8r + 2$-Spin manifolds. **89f:57053**
Katz, Gabriel Witt analogs of the Burnside ring and integrality theorems. I. **89d:57053**
— Witt analogs of the Burnside ring and integrality theorems. II. **89d:57054**
— On normal representations of G-actions on projective varieties. **89h:57033**
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Kobayashi, Masako Fixed point sets of orientation reversing involutions on 3-manifolds. **89m:57042**
Kobayashi, Tsuyoshi *see* **Kawauchi, Akio; et al., 89b:57020**
Kwasik, Sławomir (*with* Lee, Kyung Bai) Locally linear actions on 3-manifolds. **89j:57034**
— (*with* Schultz, Reinhard) Desuspension of group actions and the ribbon theorem. **89m:57043**
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Madsen, Ib (*with* Rothenberg, Mel) On the classification of G-spheres. I. Equivariant transversality. **89f:57054**
Mednykh, A. D. The isometry group of the hyperbolic space of a Seifert-Weber dodecahedron. (Russian) **89a:57053**
Nagasaki, Ikumitsu On homotopy representations with the same dimension function. **89a:57054**
Papadima, Ştefan Discrete symmetry, toral symmetry and the Euler characteristic of manifolds. **89f:57055**
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Steinberger, Mark (*with* West, James) On the geometric topology of locally linear actions of finite groups. **89d:57055**
Stolz, S. Involutions on spheres and Mahowald's root invariant. **89h:57034**
Symonds, Peter The cohomology representation of an action of C_p on a surface. **89b:57021**
Vidal, Antonio On equivariant deformation of maps. **89f:57056**
Vogel, Pierre A solution of the Steenrod problem for G-Moore spaces. **89e:57033**
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Wilczyński, Dariusz M. Group actions on the Chern manifold. **89k:57076**

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Adem, Alejandro (*with* Browder, William) The free rank of symmetry of $(S^n)^k$. **89e:57034**
Boileau, Michel (*with* Flapan, Erica) Uniqueness of free actions on S^3 respecting a knot. **89d:57004**
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Carter, J. Scott Immersed codimension one projective spaces in spherical space forms. **89g:57055**
Daccach, Janey Antonio Nonexistence of equivariant degree one maps. **89f:55001**
Davis, James Frederic Relative semicharacteristic classes. **89a:57049**
— (*with* tom Dieck, Tammo) Some exotic dihedral actions on spheres. **89k:57078**
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Haeberly, J.-P. Some remarks on the Segal and Sullivan conjectures. **89k:55022**
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Hoffman, Michael E. Homological restrictions on free group actions. **89k:57079**
Jakobsche, W. Local connectivity of spaces of finite group actions on 3-manifolds. **89g:57013**
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Pergher, Pedro L. Q. Manifolds with $(\mathrm{Z}_2)^k$-action. **89m:57039**
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Quinn, Frank Homotopically stratified sets. **89g:57050**
Royster, David C. Equivariant fiberings over the circle. **89g:57048**
Sagandykov, M. M. Some theorems of sheaf theory for spaces with a finite transformation group. (Russian) **89d:55014**
Steinberger, Mark The equivariant topological s-cobordism theorem. **89e:57015**
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Watanabe, Tadashi Approximative shape. III. Fixed point theorems. **89h:54013**
Wu, Zhen De Manifolds with involution whose fixed point set is a Dold manifold $P(2m, 2n)$. (Chinese) **89g:57052**

57S20 Noncompact Lie groups of transformations

Arraut, J. L. (*with* Moreira dos Santos, Nathan) Actions of $\mathbf{R}^p$ on closed manifolds. **89f:57057**
Molino, P. (*with* Turiel, F.-J.) Dimension des orbites d'une action de $\mathbf{R}^p$ sur une variété compacte. [Dimension of the orbits of an action of $\mathbf{R}^p$ on a compact manifold] **89k:57077**
Moreira dos Santos, Nathan *see* **Arraut, J. L., 89f:57057**
Moriyama, Yoichi Remarks on manifolds which admit locally free nilpotent Lie group actions. **89f:57058**
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Damek, Ewa The geometry of a semidirect extension of a Heisenberg type nilpotent group. **89d:22008**
Ferraro, Mario (*with* Caelli, T. M.) Relationship between integral transform invariances and Lie group theory. **89j:45001**
Kawski, Matthias Nilpotent Lie algebras of vectorfields. **89h:17011**
Klein, Joseph On Lie algebras of vector fields defined by vector forms. **89f:17019**
Natsume, Toshikazu The C^1-invariance of the Godbillon-Vey map in analytical K-theory. **89a:57057**
Plante, J. F. Lie algebras of vector fields which vanish at a point. **89m:17033**
Zastrow, Andreas Transitivity domains of groups of similarities. **89k:51033**
Zimmer, Robert J. Actions of semisimple groups and discrete subgroups. **89j:22024**

57S25 Groups acting on specific manifolds

Adem, Alejandro (*with* Browder, William) The free rank of symmetry of $(S^n)^k$. **89e:57034**
Bauer, Stefan (*with* Schneider, Albert[1]) Spherical resolutions for compact Lie groups. **89d:57056**

Browder, William *see* **Adem, Alejandro, 89e:57034**
Carlsson, Gunnar Free $(Z/2)^3$-actions on finite complexes. **89g:57054**
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Davis, James Frederic (*with* tom Dieck, Tammo) Some exotic dihedral actions on spheres. **89k:57078**
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Dovermann, Karl Heinz (*with* Masuda, Mikiya; Schultz, Reinhard) Conjugation involutions on homotopy complex projective spaces. **89a:57055**
— Cyclic group actions on complex projective spaces. **89j:57035**
Hoffman, Michael E. Homological restrictions on free group actions. **89k:57079**
Hsiang, Wu-yi (*with* Straume, Eldar) On the orbit structures of $SU(n)$-actions on manifolds of the type of Euclidean, spherical or projective spaces. **89a:57056**
Kalliongis, John (*with* Miller, Andy) Equivalence and strong equivalence of actions on handlebodies. **89k:57080**
Khosrovyan, O. M. Transitive actions of semisimple Lie groups on a punctured affine space. (Russian) **89c:57051**
Korányi, A. (*with* Reimann, H. M.) The complex cross ratio on the Heisenberg group. **89d:57057**
Masuda, Mikiya Smooth group actions on cohomology complex projective spaces with a fixed point component of codimension 2. **89d:57058**
— *see also* **Dovermann, Karl Heinz; et al., 89a:57055**
Miller, Andy *see* **Kalliongis, John, 89k:57080**
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Natsume, Toshikazu The C^1-invariance of the Godbillon-Vey map in analytical K-theory. **89a:57057**
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Straume, Eldar *see* **Hsiang, Wu-yi, 89a:57056**
Thomas, C. B. A reduction theorem for free actions by the group $Q(8n;k,l)$ on S^3. **89a:57058**
Traczyk, Paweł The cancellation problem for homotopy equivalent representations of finite groups: a survey. **89c:57053**
Yamakawa, Aiko Fixed-point free $SU(n)$-actions on acyclic manifolds. **89k:57082**

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Brand, Neal Design isomorphisms and group isomorphisms. **89i:05045**
tom Dieck, Tammo Geometric representation theory of compact Lie groups. **89e:57031**
Hughes, Mark Finite group actions on homotopy complex projective spaces. **89k:57075**
Jakobsche, W. Local connectivity of spaces of finite group actions on 3-manifolds. **89g:57013**
Kahn, Steven M. Involutions on odd-dimensional manifolds and the de Rham invariant. **89c:57050**
Kawauchi, Akio (*with* Kobayashi, Tsuyoshi; Sakuma, Makoto) On 3-manifolds with no periodic maps. **89b:57020**
Kobayashi, Tsuyoshi *see* **Kawauchi, Akio; et al., 89b:57020**
Kwasik, Sławomir (*with* Schultz, Reinhard) Desuspension of group actions and the ribbon theorem. **89m:57043**
Laback, Otto On the continuity of bijections of $\mathbf{R}^n$. **89k:54049**
Morimoto, Masaharu S^4 does not have one fixed point actions. **89m:57040**
Nagasaki, Ikumitsu On homotopy representations with the same dimension function. **89a:57054**
Pawałowski, Krzysztof Fixed point sets of smooth group actions on disks and Euclidean spaces. A survey. **89g:57051**
Petrie, Ted (*with* Randall, John D.) A topological view of algebraic actions on complex affine space. **89i:14041**
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Rubinsztein, Ryszard L. Equivariantly parallelizable manifolds. **89k:57056**
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Seidel, Hans-Peter Groups of homologies in 4-dimensional stable planes are classical. **89g:51017**
Shalen, Peter B. Dendrology of groups: an introduction. **89d:57012**
Singh, Tej Bahadur The eigenvalues of the endomorphisms induced in cohomology by a self-equivariant map. **89c:57049**
Watanabe, Nobuya On topological entropy of group actions on S^1. **89m:58127**
Wilczyński, Dariusz M. Group actions on the Chern manifold. **89k:57076**

57S30 Discontinuous groups of transformations

Kamishima, Yoshinobu Conformally flat 3-manifolds with compact automorphism groups. **89k:57083**
Kato, Mitsuyoshi On uniformizations of orbifolds. **89e:57035**
Meyerhoff, Robert A lower bound for the volume of hyperbolic 3-orbifolds. **89f:57059**
Ohshika, Ken-ichi Finite subgroups of mapping class groups of geometric 3-manifolds. **89g:57056**
Saito, Kazuo (*with* Watabe, Tsuyoshi) A remark on the existence of geometries on 4-dimensional aspherical Seifert fiber spaces. **89d:57059**
Watabe, Tsuyoshi *see* **Saito, Kazuo, 89d:57059**

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Abikoff, William Kleinian groups—geometrically finite and geometrically perverse. **89j:30061**
Chang, Ngee-Pong (*with* Li, Da-Xi) Models of nonabelian orbifolds. **89f:81250**
Collins, Donald J. The automorphism group of a free product of finite groups. **89e:20092**
Hsiang, Wu-yi (*with* Huynh, Hsueh-Ling) Generalized rotational hypersurfaces of constant mean curvature in the Euclidean spaces. II. **89b:53089**
Huynh, Hsueh-Ling *see* **Hsiang, Wu-yi, 89b:53089**
Lee, Kyung Bai There are only finitely many infra-nilmanifolds under each nilmanifold. **89f:22018**
Lehrer, G. I. On hyperoctahedral hyperplane complements. **89g:20079**
Li, Da-Xi *see* **Chang, Ngee-Pong, 89f:81250**
Martin, Gaven J. Quasiconformal actions on domains in space. **89i:30022**
— (*with* Tukia, Pekka) Convergence and Möbius groups. **89m:30095**
Megory-Cohen, Igal Finite-dimensional representation of classical crossed-product algebras. **89k:46081**
Molnár, Emil Compact Euclidean space forms presented by special tetrahedra. **89c:53032**
— Twice punctured compact Euclidean and hyperbolic manifolds and their twofold coverings. **89g:57026**
Montesinos, José María Orbifolds in the Alhambra. (Spanish) **89i:01013**
Porter, R. Michael Topography, topology and Riemann surfaces. (Spanish) (*see* **89k:00008**)
Tukia, Pekka *see* **Martin, Gaven J., 89m:30095**
Webb, David L. Equivariantly finite manifolds with no handle structure. **89k:57048**

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Bauer, Stefan (*with* May, J. P.) Maximal ideals in the Burnside ring of a compact Lie group. **89g:57057**
May, J. P. *see* **Bauer, Stefan, 89g:57057**
Sine, Robert Compact abelian actions on the two cell. **89a:57059**

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Anandan, J. Geometric angles in quantum and classical physics. **89i:81040**
Antonyan, S. A. G-ANR-resolutions and G-shapes for G-pairs. (Russian. English and Georgian summaries) **89k:57073**
Armstrong, M. A. A presentation for a group of automorphisms of a simplicial complex. **89m:20030**
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57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16A24]

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Handel, David Bordism of algebras over Hopf algebras. **89a:55006**
Kultze, R. (*with* Würgler, U.) The algebra $k(n)_*(k(n))$ for the prime 2. **89k:55037**
Lusztig, G. Quantum deformations of certain simple modules over enveloping algebras. **89k:17029**
Würgler, U. *see* **Kultze, R., 89k:55037**

57T10 Homology and cohomology of Lie groups

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Boukraa, S. The BRS algebra of a free minimal differential algebra. **89k:17034**
Duan, Hai Bao The Lefschetz number of self-maps of Lie groups. **89d:55002**
Hou, Bo Yu (*with* Zhang, Yao Zhong) Cohomology in connection space, family index theorem, and abelian gauge structure. **89a:58021**
Hubbuck, J. R. Unstable atomicity and loop spaces on Lie groups. **89e:55026**
Lin, James P. The vanishing of Steenrod squares on H-spaces. **89d:55023**
Magalhães, Luisa Some results in the connective K-theory of Lie groups. **89e:55012**
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57T15 Homology and cohomology of homogeneous spaces of Lie groups

Antoniano, E. (*with* Gitler, S.; Ucci, J.; Zvengrowski, P.) On the K-theory and parallelizability of projective Stiefel manifolds. **89g:57058**
Cenkl, Bohumil (*with* Porter, Richard) Cohomology of nilmanifolds. **89i:57018**
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Haefliger, André Des espaces homogènes à la résolution de Koszul. (English summary) [From homogeneous spaces to Koszul's resolution] **89f:57061**
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Halperin, Stephen *see* **Grove, Karsten, 89h:53113**
Kassel, Christian L'homologie cyclique des algèbres enveloppantes. (English summary) [The cyclic homology of enveloping algebras] **89e:17015**
Lundell, Albert T. (*with* Tosa, Y.) Global anomalies and algebraic topology. **89f:81195**
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57T20 Homotopy groups of topological groups and homogeneous spaces

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Oka, Shichirô A generalization of the Adams invariant and applications to homotopy of the exceptional Lie group G_2. **89d:55037**
Picken, R. F. Global anomalies and homotopy group cocycles. **89j:81112**
Shiga, Hiroo (*with* Tezuka, M.) Rational fibrations, homogeneous spaces with positive Euler characteristics and Jacobians. (French summary) **89g:55019**
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57T25 Homology and cohomology of H-spaces

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Broto i Blanco, Carles (*with* Zarati, S.) Nil-localization of unstable algebras over the Steenrod algebra. **89i:55015**
Gunawardena, Jeremy Stiefel-Whitney classes for representations of groups. **89g:57036**
Lin, James P. The rational cohomology of finite loop spaces. **89j:55011**
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57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

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Hain, Richard M. ★ Итерированные интегралы и проблема гомотопических периодов. (Russian) [Iterated integrals and the problem of homotopy periods] **89j:55013**
Kadeishvili, T. V. The functor D for a category of $A(\infty)$-algebras. (Russian. English and Georgian summaries) **89b:55022**
(Khokhlov, A. V.) *see* **Hain, Richard M., 89j:55013**
Lambe, Larry (*with* Stasheff, James) Applications of perturbation theory to iterated fibrations. **89d:55041**
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57T99 None of the above, but in this section

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Franjou, Vincent Quelques éléments dans l'homotopie stable du groupe unitaire. (English summary) [Some elements in the stable homotopy of the unitary group] **89b:55014**
Fried, David Erratum to: "Anosov foliations and cohomology" [Ergodic Theory Dynamical Systems **6** (1986), no. 1, 9–16; MR 87h:58172]. **89k:58228**
Kozima, Kazumoto On some stable maps and compact Lie groups. **89e:55032**

58–XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46–XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22]

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58–01 Elementary exposition; textbooks

Abraham, R. (*with* Marsden, Jerrold E.; Ratiu, T.) ★ Manifolds, tensor analysis, and applications. **89f:58001**
(Antelmann, Horst) *see* **Dieudonné, Jean, 89b:58001** *and* **89b:58002**
Aubin, Jean-Pierre (*with* Ekeland, Ivar) ★ Прикладной нелинейный анализ. (Russian) [Applied nonlinear analysis] **89g:58001**
Bérard, P. H. ★ Analysis on Riemannian manifolds and geometric applications: an introduction. **89h:58001**
Collatz, Lothar Bifurcation problems in different parts of mathematics. **89h:58002**
(Darkhovskiĭ, B. S.) *see* **Aubin, Jean-Pierre, 89g:58001**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 9. (German) [Foundations of modern analysis. 9] **89b:58001**
— ★ Grundzüge der modernen Analysis. Band 9. (German) [Foundations of modern analysis. Vol. 9] **89b:58002**
— ★ Treatise on analysis. Vol. VII. **89j:58001**
Ekeland, Ivar *see* **Aubin, Jean-Pierre, 89g:58001**
(Fainsilber, Laura) *see* **Dieudonné, Jean, 89j:58001**
Fomenko, A. T. ★ Differential geometry and topology. **89b:58003**
— *see also* **Novikov, S. P., 89e:58001**
Hazewinkel, M. A tutorial introduction to differentiable manifolds and calculus on manifolds. **89i:58001**
(Leĭtes, D. A.) *see* **Fomenko, A. T., 89b:58003**
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Marsden, Jerrold E. *see* **Abraham, R.; et al., 89f:58001**
Nash, Charles Edward (*with* Sen, Siddhartha[1]) ★ Topology and geometry for physicists. **89b:58004**
Novikov, S. P. (*with* Fomenko, A. T.) ★ Элементы дифференциальной геометрии и топологии. (Russian) [Elements of differential geometry and topology] **89e:58001**
Postnikov, M. M. ★ Гладкие многообразия. (Russian) [Smooth manifolds] **89i:58002**
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Berger, Marcel (*with* Gostiaux, Bernard) ★ Géométrie différentielle: variétés, courbes et surfaces. (French) [Differential geometry: manifolds, curves and surfaces] **89b:53001**
Buldyrev, V. S. (*with* Pavlov, B. S.) ★ Линейная алгебра и функции многих переменных. (Russian) [Linear algebra and functions of several variables] **89f:00001**
(Ebeling, Werner) *see* **Anishchenko, V. S., 89g:58058**
Fomenko, A. T. *see* **Mishchenko, A. S., 89m:53001**
Göckeler, M. (*with* Schücker, T.) ★ Differential geometry, gauge theories, and gravity. **89d:53124**
Gostiaux, Bernard *see* **Berger, Marcel, 89b:53001**
Lavendhomme, R. ★ Leçons de géométrie différentielle synthétique naïve. (French) [Lessons in elementary synthetic differential geometry] **89e:58002**
Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) ★ Topología diferencial. (Spanish) [Differential topology] **89d:57001**
Mishchenko, A. S. (*with* Fomenko, A. T.) ★ A course of differential geometry and topology. **89m:53001**
Outerelo Domínguez, Enrique *see* **Margalef Roig, Juan, 89d:57001**
Pavlov, B. S. *see* **Buldyrev, V. S., 89f:00001**
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(Talashev, Anatoly) *see* **Mishchenko, A. S., 89m:53001**
Terrier, J.-M. Differentiable manifolds, Lie groups and connections. **89i:53001**

58–02 Advanced exposition (research surveys, monographs, etc.)

Albert, C. (*with* Molino, P.) ★ Pseudogroupes de Lie transitifs. II. (French) [Transitive Lie pseudogroups. II] **89b:58005**
Berezin, F. A. ★ Introduction to superanalysis. **89b:58006**
(Kirillov, A. A.) *see* **Berezin, F. A., 89b:58006**
(Kotecký, R.) *see* **Berezin, F. A., 89b:58006**
(Leĭtes, D. A.) *see* **Berezin, F. A., 89b:58006**
Molino, P. *see* **Albert, C., 89b:58005**
(Niederle, Jiří) *see* **Berezin, F. A., 89b:58006**
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Vasil′ev, A. M. ★ Теория дифференциально-геометрических структур. (Russian) [Theory of differential-geometric structures] **89m:58001**

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Grebogi, Celso (*with* Ott, Edward; Yorke, James A.) Chaos, strange attractors, and fractal basin boundaries in nonlinear dynamics. **89h:58113**
Kufner, A. (*with* Fučík, Svatopluk) ★ Нелинейные дифференциальные уравнения. (Russian) [Nonlinear differential equations] **89k:35003**
Lychagin, V. V. Geometric theory of singularities of solutions of nonlinear differential equations. (Russian) **89k:58265**
Ott, Edward *see* **Grebogi, Celso; et al., 89h:58113**
(Pokhozhaev, S. I.) *see* **Kufner, A., 89k:35003**
Temam, Roger ★ Infinite-dimensional dynamical systems in mechanics and physics. **89m:58056**
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Yorke, James A. *see* **Grebogi, Celso; et al., 89h:58113**
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58–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 58–03

(Bohlin, Karl) *see* **Poincaré, Henri, 89e:01054b**
(Bott, Raoul) *see* **Morse, Marston, 89c:01099**
(Gyldén, Hugo) *see* **Poincaré, Henri, 89e:01054b**
(Kovalevsky, J.) *see* **Poincaré, Henri, 89e:01054a**
Kudryashova, L. V. (*with* Stepanova, L. A.) The Donetsk school of rigid body dynamics. (Russian) **89c:01096**
(Lichnerowicz, André) *see* **Marle, Charles-Michel, 89m:01100**
(Lindstedt, A.) *see* **Poincaré, Henri, 89e:01054b**
Marle, Charles-Michel L'œuvre d'André Lichnerowicz en géométrie symplectique. [The work of André Lichnerowicz in symplectic geometry] **89m:01100**
(Montgomery, Deane) *see* **Morse, Marston, 89c:01099**
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(Newcomb, Simon) *see* **Poincaré, Henri, 89e:01054b**
Penrose, Roger Hermann Weyl, space-time and conformal geometry. (*see* **89a:01046**)
Poincaré, Henri ★ Les méthodes nouvelles de la mécanique céleste. Tome I. (French) [New methods of celestial mechanics. Vol. I] **89e:01054a**
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58–04 Explicit machine computation and programs (not the theory of computation or programming)

Albahadily, F. N. (*with* Ringland, John; Schell, Mark) Mixed-mode oscillations in an electrochemical system. I. A Farey sequence which does not occur on a torus. **89k:58001**
— *see also* **Schell, Mark, 89k:58002**
Banchoff, T. F. Visualizing two-dimensional phenomena in four-dimensional space: a computer graphics approach. **89a:58001**
Knapp, D. Dynamical systems. **89j:58002**
Koçak, H. (*with* Laidlaw, David) Computer graphics and the geometry of S^3. **89d:58001**
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— *see also* **Albahadily, F. N.; et al., 89k:58001**
Shvachka, A. B. *see* **Topunov, V. L., 89h:58003**
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58–06 Proceedings, conferences, etc.

(Bamón, R.) *see* **Dynamical systems, 89c:58002**
(Besseling, J. F.) *see* **Trends in applications of mathematics to mechanics, 89g:58004**
(Bongaarts, P. J. M.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**
(Borisovich, Yu. G.) *see* **Global analysis—studies and applications, 89f:58002**
(Dazord, Pierre) *see* **Hamiltonian actions of groups. Lie's third theorem, 89a:58003**
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Toda lattice and related topics ★ Toda koshi to sono shuhen. (Japanese) [Toda lattice and related topics] **89g:58003**
Trends in applications of mathematics to mechanics ★ Trends in applications of mathematics to mechanics. **89g:58004**
Valparaíso ★ Dynamical systems, Valparaíso 1986. **89c:58002**
Wassenaar ★ Trends in applications of mathematics to mechanics. **89g:58004**

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(Alexander, J. C.) *see* **Dynamical systems, 89g:58061**
(Aoki, Nobuo) *see* **Dynamical systems and applications, 89f:58048**
(Buiatti, Marcello) *see* **Chaos and complexity, 89g:58144**
(Chirikov, B. V.) *see* **Progress in chaotic dynamics,** (Not in MR)
(Ciliberto, S.) *see* **Chaos and complexity, 89g:58144**
(Flaschka, Hermann) *see* **Progress in chaotic dynamics,** (Not in MR)
(Ford, Joseph) *see* **Progress in chaotic dynamics,** (Not in MR)
(Fusco, Giorgio) *see* **Advanced topics in the theory of dynamical systems, 89k:58076**
(Gaponov-Grekhov, A. V.) *see* **Nonlinear waves, 89b:76002**
(Gerstenhaber, Murray) *see* **Deformation theory of algebras and structures and applications, 89h:00003**
(Ghidaglia, Jean-Michel) *see* **Dissipative nonlinear partial differential equations and dynamical systems, 89a:35004**
(Giaquinta, Mariano) *see* **Topics in calculus of variations, 89k:58051**
(Hazewinkel, M.) *see* **Deformation theory of algebras and structures and applications, 89h:00003**
(Iannelli, Mimmo) *see* **Advanced topics in the theory of dynamical systems, 89k:58076**
(Jimbo, Michio) *see* **Conformal field theory and solvable lattice models, 89f:81003**
(Kaminker, Jerome) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**
(Kirchgraber, U.) *see* **Dynamics reported, 89a:58033**
(Leach, P. G. L.) *see* **Finite-dimensional integrable nonlinear dynamical systems, 89f:58075**
(Levi, Mark) *see* **Dynamical systems approaches to nonlinear problems in systems and circuits, 89f:58049**
(Livi, R.) *see* **Chaos and complexity, 89g:58144**
(Millett, K. C.) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**
(Miwa, Tetsuji) *see* **Conformal field theory and solvable lattice models, 89f:81003**
(Rabinovich, M. I.) *see* **Nonlinear waves, 89b:76002**
(Ruffo, Stefano) *see* **Chaos and complexity, 89g:58144**
(Salam, Fathi M. A.) *see* **Dynamical systems approaches to nonlinear problems in systems and circuits, 89f:58049**
(Salvadori, L.) *see* **Advanced topics in the theory of dynamical systems, 89k:58076**
(Satsuma, Junkichi) *see* **Recent developments in soliton theory, 89g:35003**
(Saut, Jean-Claude) *see* **Dissipative nonlinear partial differential equations and dynamical systems, 89a:35004**
(Schochet, Claude) *see* **Index theory of elliptic operators, foliations, and operator algebras, 89a:46003**
(Steeb, W.-H.) *see* **Finite-dimensional integrable nonlinear dynamical systems, 89f:58075**
(Takeno, S.) *see* **Recent developments in soliton theory, 89g:35003**
(Tsuchiya, Akihiro) *see* **Conformal field theory and solvable lattice models, 89f:81003**
(Wadati, Miki) *see* **Recent developments in soliton theory, 89g:35003**
(Walther, Hans-Otto) *see* **Dynamics reported, 89a:58033**

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Advanced topics in the theory of dynamical systems ★ Advanced topics in the theory of dynamical systems. **89k:58076**
Birthday:
Ford, Joseph ★ Progress in chaotic dynamics. (Not in MR)
Chaos and complexity ★ Chaos and complexity. **89g:58144**
College Park, MD ★ Dynamical systems. **89g:58061**
Conference:
Advanced Topics in the Theory of Dynamical Systems ★ Advanced topics in the theory of dynamical systems. **89k:58076**
Dynamical Systems and Applications ★ Dynamical systems and applications. **89f:58048**
Qualitative Methods for the Analysis of Nonlinear Dynamics ★ Dynamical systems approaches to nonlinear problems in systems and circuits. **89f:58049**
Conformal field theory and solvable lattice models ★ Conformal field theory and solvable lattice models. **89f:81003**
Contemporary Mathematics ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Deformation theory of algebras and structures and applications ★ Deformation theory of algebras and structures and applications. **89h:00003**
Dissipative nonlinear partial differential equations and dynamical systems ★ Équations aux dérivées partielles non linéaires dissipatives et systèmes dynamiques. (French) [Dissipative nonlinear partial differential equations and dynamical systems] **89a:35004**
Dynamical systems ★ Dynamical systems. **89g:58061**
Dynamical systems and applications ★ Dynamical systems and applications. **89f:58048**
Dynamical systems approaches to nonlinear problems in systems and circuits ★ Dynamical systems approaches to nonlinear problems in systems and circuits. **89f:58049**
Dynamics reported ★ Dynamics reported. Vol. 1. **89a:58033**
Équations aux dérivées partielles non linéaires dissipatives et systèmes dynamiques ★ Équations aux dérivées partielles non linéaires dissipatives et systèmes dynamiques. (French) [Dissipative nonlinear partial differential equations and dynamical systems] **89a:35004**
Finite-dimensional integrable nonlinear dynamical systems ★ Finite-dimensional integrable nonlinear dynamical systems. **89f:58075**
Henniker, NH ★ Dynamical systems approaches to nonlinear problems in systems and circuits. **89f:58049**
Il Ciocco ★ Deformation theory of algebras and structures and applications. **89h:00003**
Index theory of elliptic operators, foliations, and operator algebras ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Indianapolis, IN ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Johannesburg ★ Finite-dimensional integrable nonlinear dynamical systems. **89f:58075**
Kyoto ★ Dynamical systems and applications. **89f:58048**
— ★ Conformal field theory and solvable lattice models. **89f:81003**
Lecture Notes in Mathematics ★ Dynamical systems. **89g:58061**
— ★ Topics in calculus of variations. **89k:58051**
Meeting:
American Mathematical Society ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
— ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Minimax results of Lusternik-Schnirelman type and applications ★ Minimax results of Lusternik-Schnirelman type and applications. **89k:58050**
Montecatini Terme ★ Topics in calculus of variations. **89k:58051**
Montreal, PQ ★ Minimax results of Lusternik-Schnirelman type and applications. **89k:58050**
NATO Advanced Study Institute:
Deformation Theory of Algebras and Structures and Applications ★ Deformation theory of algebras and structures and applications. **89h:00003**
Variational Methods in Nonlinear Problems ★ Minimax results of Lusternik-Schnirelman type and applications. **89k:58050**
New Orleans, LA ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Nonlinear waves ★ Нелинейные волны. (Russian) [Nonlinear waves] **89b:76002**
Progress in chaotic dynamics ★ Progress in chaotic dynamics. (Not in MR)
Recent developments in soliton theory ★ Recent developments in soliton theory. **89g:35003**
Session:
Index Theory and its Applications ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Operator Algebras and Foliations ★ Index theory of elliptic operators, foliations, and operator algebras. **89a:46003**
Topics in Calculus of Variations ★ Topics in calculus of variations. **89k:58051**
Special issue:
Progress in chaotic dynamics ★ Progress in chaotic dynamics. (Not in MR)
Special Year:
Ergodic Theory and Dynamics ★ Dynamical systems. **89g:58061**
Symposium:
Conformal Field Theory and Solvable Lattice Models ★ Conformal field theory and solvable lattice models. **89f:81003**
Topics in calculus of variations ★ Topics in calculus of variations. **89k:58051**
Torino ★ Chaos and complexity. **89g:58144**
Trento ★ Advanced topics in the theory of dynamical systems. **89k:58076**
Workshop:
Chaos and Complexity ★ Chaos and complexity. **89g:58144**
Finite-Dimensional Integrable Nonlinear Dynamical Systems ★ Finite-dimensional integrable nonlinear dynamical systems. **89f:58075**

58Axx General theory of differentiable manifolds

58A05 Differentiable manifolds, foundations

Balaceanu, Constantin *see* **Burstein, Gabriel; et al., 89c:58004**
Bunge, Marta On a synthetic proof of the Ambrose-Palais-Singer theorem for infinitesimally linear spaces. (French summary) **89a:58004**
Burstein, Gabriel (*with* Nicu, Mihail D.; Balaceanu, Constantin) Simplicial differential geometric theory for language cortical dynamics. **89c:58004**
Kainz, Gerd (*with* Michor, Peter W.) Natural transformations in differential geometry. **89b:58010**
Kock, Anders Synthetic reasoning in differential geometry. **89h:58004**
— (*with* Reyes, Gonzalo E.) Corrigendum and addenda to the paper: "Convenient vector spaces embed into the Cahiers topos" [Cahiers Topologie Géom. Différentielle Catégoriques 27 (1986), no. 1, 3–17, MR 87m:58009a] by Kock. (French summary) **89d:58002**
Kubarski, Jan Some generalization of Godement's theorem on division. **89m:58002**
Lavendhomme, R. ★ Leçons de géométrie différentielle synthétique naïve. (French) [Lessons in elementary synthetic differential geometry] **89e:58002**
Meloni, G. C. (*with* Rogora, E.) Global and infinitesimal observables. **89m:58003**
Michor, Peter W. *see* **Kainz, Gerd, 89b:58010**
Moerdijk, Ieke (*with* Reyes, Gonzalo E.) Cohomology theories in synthetic differential geometry. **89k:58004**
— (*with* Ngô Van Quê; Reyes, Gonzalo E.) Forcing smooth square roots and integration. **89d:58003**
Ngô Van Quê *see* **Moerdijk, Ieke; et al., 89d:58003**
Nicu, Mihail D. *see* **Burstein, Gabriel; et al., 89c:58004**
Okassa, Eugène Prolongement des champs de vecteurs à des variétés de points proches. (English summary) [Prolongation of vector fields to manifolds of near-points] **89k:58005**

Reyes, Gonzalo E. *see* **Kock, Anders, 89d:58002**; **Moerdijk, Ieke; et al., 89d:58003** *and* **89k:58004**
Rogora, E. *see* **Meloni, G. C., 89m:58003**

Items with secondary classifications in 58A05

Mneimné, R. (*with* Testard, Frédéric) ★ Introduction à la théorie des groupes de Lie classiques. (French) [Introduction to the theory of classical Lie groups] **89b:22001**
Moerdijk, Ieke (*with* Reyes, Gonzalo E.) On the relation between connection and sprays. **89k:18019**
— On the embedding of manifolds into the smooth Zariski topos. **89c:18008**
Reyes, Gonzalo E. *see* **Moerdijk, Ieke, 89k:18019**
Terrier, J.-M. Differentiable manifolds, Lie groups and connections. **89i:53001**
Testard, Frédéric *see* **Mneimné, R., 89b:22001**
Yetter, David N. Categories of modules in synthetic differential geometry. (French summary) **89d:58007**

58A07 Real-analytic and Nash manifolds [see also 32C05]

Shiota, Masahiro Nash manifolds. **89h:58005**
— ★ Nash manifolds. **89b:58011**

Items with secondary classifications in 58A07

Guaraldo, Francesco An approximation problem for manifolds. (Italian. English summary) **89m:32012**
Kurdyka, Krzysztof Ensembles semi-algébriques symétriques par arcs. [Arcwise symmetric semi-algebraic sets] **89j:14015**
Pasini, Leonardo Hardy fields in several variables. (Italian summary) **89g:12005**
— Generalized Hardy fields in several variables. **89k:12004**
Tognoli, Alberto Quelques exemples en géométrie algébrique réelle. [Some examples in real algebraic geometry] **89a:14026**
— Some results on contraction of real sets. (Italian summary) **89e:14021**
Waliszewski, W. Quasi-algebraic representability of sets in $\mathbf{R}^n$. **89m:32015**

58A10 Differential forms

Almeida, P. Noncommutative Poincaré complex. **89k:58006**
Burlakov, M. P. Clifford structures and integration on smooth manifolds. (Russian) **89c:58005**
Cai, Kai Ren An application of stress energy tensor to the vanishing theorem of differential forms. **89m:58004**
Donev, S. G. Autoclosed differential forms and $(3+1)$-solitary waves. (Russian summary) **89k:58007**
Gómez, J. (*with* Varela, F.) Global models of some exterior forms of maximal Cartan class. (Spanish. English summary) **89g:58005**
Jones, John D. S. (*with* Petrack, S. B.) Le théorème des points fixes en cohomologie équivariante en dimension infinie. (English summary) [On the fixed-point theorem in equivariant cohomology in infinite dimensions] **89b:58012**
Kichenassamy, Satyanad Compactness theorems for differential forms. **89k:58008**
Kolář, Ivan (*with* Michor, Peter W.) All natural concomitants of vector valued differential forms. **89g:58006**
— Lie derivatives of sectorform fields. **89k:58009**
Michor, Peter W. Remarks on the Schouten-Nijenhuis bracket. **89j:58003**
— *see also* **Kolář, Ivan, 89g:58006**
Minguez, M. Carmen Wedge product of forms in synthetic differential geometry. (French summary) **89h:58006**
Petrack, S. B. *see* **Jones, John D. S., 89b:58012**
Pidello, Giorgio (*with* Tulczyjew, Włodzimierz M.) Derivations of differential forms on jet bundles. (French summary) **89g:58007**
Shcherbakova, S. Yu. The Lie groupoid and structural equations of higher-order connections. (Russian) (*see* **89f:00017**)
Tulczyjew, Włodzimierz M. *see* **Pidello, Giorgio, 89g:58007**
Varela, F. *see* **Gómez, J., 89g:58005**
Vedenyapin, V. V. Differential forms in spaces without a norm. A uniqueness theorem for the Boltzmann H-function. **89f:58003**
Xin, Yuan Long Conservation law and vanishing of harmonic forms. **89k:58010**

Items with secondary classifications in 58A10

Abed, S. H. On differential forms in Finsler bundles. **89c:53051**
Aldrovandi, R. (*with* Kraenkel, R. A.) On exterior variational calculus. **89g:49056**
Aomoto, Kazuhiko Vanishing of certain 1-form attached to a configuration. **89f:32021**
Arraut, J. L. (*with* Moreira dos Santos, Nathan) Actions of $\mathbf{R}^p$ on closed manifolds. **89f:57057**
Bahri, Abbas Pseudo-orbits of contact forms. **89a:58037**
Brylinski, Jean-Luc A differential complex for Poisson manifolds. **89m:58006**
Coll, Bartolomé (*with* San José, Fernando) Sur l'exponentielle des 2-formes en relativité. (English summary) [On the exponential of 2-forms in relativity] **89j:83003**
Dadok, J. (*with* Harvey, Reese; Morgan, Frank) Calibrations on $\mathbf{R}^8$. **89f:53089**
Dubois-Violette, Michel The Weil-BRS algebra of a Lie algebra and the anomalous terms in gauge theory. **89h:17026**
— Dérivations et calcul différentiel non commutatif. (English summary) [Derivations and noncommutative differential calculus] **89k:58035**
Dupont, Johan L. A dual simplicial de Rham complex. **89i:55006**
Eichhorn, Jürgen Characteristic classes and numbers for fibre bundles over noncompact manifolds. **89b:53049**
Elworthy, K. D. Brownian motion and harmonic forms. **89h:58180**
Ginzburg, V. L. New generalizations of Poincaré's geometric theorem. (Russian) **89f:58057**
Gómez, J. (*with* Varela, F.) Sur certaines expressions globales d'une forme volume. [On some global expressions of a volume form] **89c:53058**
Guíñez, Víctor Positive quadratic differential forms and foliations with singularities on surfaces. **89h:57021**
Haefliger, André Des espaces homogènes à la résolution de Koszul. (English summary) [From homogeneous spaces to Koszul's resolution] **89f:57061**
Harvey, Reese *see* **Dadok, J.; et al., 89f:53089**
Heil, A. (*with* Kersch, A.; Reifenhäuser, B.; Vogel, H.) Application of topological ideas to the Aharonov-Bohm effect. (Not in MR)
Henč, Damir Ergodicity of foliations with singularities. **89d:57041**
Kersch, A. *see* **Heil, A.; et al.**, (Not in MR)
Kraenkel, R. A. *see* **Aldrovandi, R., 89g:49056**
Lohoué, Noël Estimations asymptotiques des noyaux résolvants du laplacien des formes différentielles sur les espaces symétriques de rang un, de type non compact et applications. (English summary) [Asymptotic estimates for resolvent kernels of the Laplace operator on differential forms on noncompact rank-one symmetric spaces, and applications] **89i:58148**
Maia, Adolfo, Jr. *see* **Recami, Erasmo; et al., 89d:53126**
Mangiarotti, L. Jet shift differentials in classical gauge theories. **89d:53062**
Martin, Geoffrey Dynamical structures for k-vector fields. **89k:58096**
Matuszczyk, Hanna (*with* Waliszewski, W.) Stokes' formula for singular chains in a differential space of finite dimension. **89c:58010**
Michor, Peter W. Remarks on the Frölicher-Nijenhuis bracket. **89c:53014**
Millionshchikov, D. V. Imbeddings of a minimal model of k-homotopy type into the algebras of smooth forms $\Lambda^*(M)$. **89f:55010**
Moreira dos Santos, Nathan *see* **Arraut, J. L., 89f:57057**
Morgan, Frank *see* **Dadok, J.; et al., 89f:53089**
Pfeffer, Washek F. Stokes theorem for forms with singularities. (French summary) **89k:26008**
Recami, Erasmo (*with* Rodrigues, Waldyr A., Jr.; Maia, Adolfo, Jr.; Rosa, Marcio A. F.) Magnetic monopoles without string by Kähler-Clifford algebra: a satisfactory formalism. **89d:53126**
Reifenhäuser, B. *see* **Heil, A.; et al.**, (Not in MR)
Rodrigues, Waldyr A., Jr. *see* **Recami, Erasmo; et al., 89d:53126**
Rosa, Marcio A. F. *see* **Recami, Erasmo; et al., 89d:53126**
San José, Fernando *see* **Coll, Bartolomé, 89j:83003**
Suzuki, Haruo Differentiable singular cohomology for foliations. **89d:57043**
Talalaev, M. V. Classes of differential forms that are invariant under quasiconformal mappings. (Russian) **89b:58014**
Tondeur, Philippe ★ Foliations on Riemannian manifolds. **89e:53052**
Varela, F. *see* **Gómez, J., 89c:53058**
Vogel, H. *see* **Heil, A.; et al.**, (Not in MR)
Voronov, A. A. A formula for the Mumford measure in superstring theory. **89g:32034**
Voronov, F. F. (*with* Zorich, A. V.) Cohomology of supermanifolds, and integral geometry. **89c:58006**
Waliszewski, W. *see* **Matuszczyk, Hanna, 89c:58010**
Witten, Edward Topological quantum field theory. **89m:57037**
Wu, Wen Jun ★ Rational homotopy type. **89d:55030**
Zorich, A. V. The quasiperiodic structure of level surfaces of a Morse 1-form that is close to a rational form—the problem of S. P. Novikov. **89f:58028**
— *see also* **Voronov, F. F., 89c:58006**

58A12 de Rham theory [see also 14Fxx]

Asada, Akira Nonabelian de Rham theory. **89m:58005**
— Nonabelian de Rham theories. **89f:58004**
Brylinski, Jean-Luc A differential complex for Poisson manifolds. **89m:58006**
Dezin, A. A. The two-dimensional Abel transform and applications. (Russian) (*see* **89j:00030**)
Ginzburg, V. A. Equivariant cohomology and Kähler geometry. (Russian) **89b:58013**
Gol′dshteĭn, V. M. (*with* Kuz′minov, V. I.; Shvedov, I. A.) The de Rham isomorphism of the L_p-cohomology of noncompact Riemannian manifolds. **89h:58007**
Karasëv, M. V. *see* **Vorob′ev, Yu. M., 89k:58011**
Kuz′minov, V. I. *see* **Gol′dshteĭn, V. M.; et al., 89h:58007**
Shvedov, I. A. *see* **Gol′dshteĭn, V. M.; et al., 89h:58007**
Stasheff, James Cohomological physics. **89i:58003**
Talalaev, M. V. Classes of differential forms that are invariant under quasiconformal mappings. (Russian) **89b:58014**
Vorob′ev, Yu. M. (*with* Karasëv, M. V.) Poisson manifolds and the Schouten bracket. **89k:58011**
Voronov, F. F. (*with* Zorich, A. V.) Cohomology of supermanifolds, and integral geometry. **89c:58006**
Zorich, A. V. *see* **Voronov, F. F., 89c:58006**

Items with secondary classifications in 58A12

Amici, O. (*with* Casciaro, Biagio; Dragomir, Sorin) On the cohomology of Finsler manifolds. **89e:53101**
Aomoto, Kazuhiko On the complex Selberg integral. **89g:32004**
Borisov, N. V. (*with* Müller, Werner^1; Schrader, Robert) Relative index theorems and supersymmetric scattering theory. **89j:58131**
Brenier, Yann Décomposition polaire et réarrangement monotone des champs de vecteurs. (English summary) [Polar decomposition and increasing rearrangement of vector fields] **89b:58226**
Casciaro, Biagio *see* **Amici, O.; et al., 89e:53101**
Cenkl, Bohumil (*with* Porter, Richard) Cohomology of nilmanifolds. **89i:57018**
(Connes, Alain) *see* **Kastler, Daniel, 89h:18013**
Craioveanu, Mircea (*with* Puta, Mircea) Cohomology classes and foliated manifolds. **89f:58006**
Dragomir, Sorin *see* **Amici, O.; et al., 89e:53101**
Dupont, Johan L. A dual simplicial de Rham complex. **89i:55006**
Gol′dshteĭn, V. M. (*with* Kuz′minov, V. I.; Shvedov, I. A.) L_p-cohomology of Riemannian manifolds. (Russian) **89d:58117**
Hain, Richard M. ★ Итерированные интегралы и проблема гомотопических периодов. (Russian) [Iterated integrals and the problem of homotopy periods] **89j:55013**

Kamber, Franz W. (*with* Tondeur, Philippe) de Rham-Hodge theory for Riemannian foliations. **89d:53070**
Kastler, Daniel ★ Cyclic cohomology within the differential envelope. **89h:18013**
(Khokhlov, A. V.) *see* **Hain, Richard M., 89j:55013**
Kuz′minov, V. I. *see* **Gol′dshtein, V. M.; et al., 89d:58117**
Lehmann, Daniel Intégration sur les variétés stratifiées. (English summary) [Integration on stratified manifolds] **89k:58017**
Madsen, Ib ★ Lectures on characteristic classes in algebraic topology. **89m:57023**
Maurin, Krzysztof Duality (polarity) in mathematics, physics and philosophy. **89m:22005**
(Mishchenko, A. S.) *see* **Hain, Richard M., 89j:55013**
Moerdijk, Ieke (*with* Reyes, Gonzalo E.) Cohomology theories in synthetic differential geometry. **89k:58004**
Müller, Werner[1] *see* **Borisov, N. V.; et al., 89j:58131**
(Narasimhan, M. S.) *see* **Schwartz, Laurent, 89a:32001**
(Pazhitnov, A. V.) *see* **Hain, Richard M., 89j:55013**
Porter, Richard *see* **Cenkl, Bohumil, 89i:57018**
Puta, Mircea *see* **Craioveanu, Mircea, 89f:58006**
Reyes, Gonzalo E. *see* **Moerdijk, Ieke, 89k:58004**
Schrader, Robert *see* **Borisov, N. V.; et al., 89j:58131**
Schwartz, Laurent ★ Lectures on complex analytic manifolds. **89a:32001**
Seaman, Walter Some remarks on positively curved 4-manifolds. **89i:53033**
Shvedov, I. A. *see* **Gol′dshtein, V. M.; et al., 89d:58117**
Tapia, Joseph Sur la pente du feuilletage de Kronecker et la cohomologie étale de l'espace des feuilles. (English summary) [On the slope of the Kronecker foliation and the étale cohomology of the leaf space] **89c:57038**
Toledo, Domingo Bounded harmonic functions on coverings. **89h:58206**
Tondeur, Philippe *see* **Kamber, Franz W., 89d:53070**
Verona, Andrei A de Rham type theorem for orbit spaces. **89j:57033**

58A14 Hodge theory [see also 14C30, 14Fxx, 32Cxx]

Alessandrini, Lucia (*with* Andreatta, Marco) A resolution of the sheaf of germs of real pluriharmonic functions. **89e:58003**
Anderson, Michael T. L^2 harmonic forms on complete Riemannian manifolds. **89j:58004**
Andreatta, Marco *see* **Alessandrini, Lucia, 89e:58003**
Craioveanu, Mircea (*with* Puta, Mircea) Some remarks concerning the basic Laplacian. **89i:58004**
De Cecco, Giuseppe (*with* Palmieri, Giuliana) Harmonic forms on compact Lipschitz manifolds. (Italian summary) **89b:58015**
Eichhorn, Jürgen L_2-cohomology. **89j:58005**
Hirashita, Yukio The Hodge's $*$-operator and orthonormal basis. **89e:58004**
Li, Quan Sheng The Hodge $*$ operator in global analysis. (Chinese. English summary) **89m:58007**
Mazzeo, Rafe The Hodge cohomology of a conformally compact metric. **89i:58005**
Palmieri, Giuliana *see* **De Cecco, Giuseppe, 89b:58015**
Puta, Mircea *see* **Craioveanu, Mircea, 89i:58004**

Items with secondary classifications in 58A14

Bishop, N. T. The Poincaré inequality for a vector field with zero tangential or normal component on the boundary. **89h:26019**
Braam, Peter J. A Kaluza-Klein approach to hyperbolic three-manifolds. **89m:57013**
Cai, Kai Ren An application of stress energy tensor to the vanishing theorem of differential forms. **89m:58004**
Gigante, Giuliana The cohomology of pseudo-Hermitian manifolds with torsion zero. (Italian. English summary) **89a:53076**
Ginzburg, V. A. Equivariant cohomology and Kähler geometry. (Russian) **89b:58013**
Gol′dshtein, V. M. (*with* Kuz′minov, V. I.; Shvedov, I. A.) L_p-cohomology of Riemannian manifolds. (Russian) **89d:58117**
— (*with* Kuz′minov, V. I.; Shvedov, I. A.) The de Rham isomorphism of the L_p-cohomology of noncompact Riemannian manifolds. **89h:58007**
Hain, Richard M. The geometry of the mixed Hodge structure on the fundamental group. **89g:14010**
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58Bxx Infinite-dimensional manifolds

58B05 Homotopy and topological questions

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58B25 Group structures and generalizations on infinite-dimensional manifolds [see also 22E65, 58D05]

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58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

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58C07 Continuity properties of mappings

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58C10 Holomorphic maps [see also 32–XX]

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Feireisl, Eduard Small time-periodic solutions to a nonlinear equation of a vibrating string. (Russian and Czech summaries) **89c:35009**
— Time-periodic solutions of a quasilinear beam equation via accelerated convergence methods. (Russian and Czech summaries) **89j:35019**
Furuta, Mikio Perturbation of moduli spaces of self-dual connections. **89g:57019**
Gopala Krishna, J. (*with* Usha Sree Devi, M.) General forms of inverse and implicit function theorems treatment closer to intuition through nonstandard techniques. **89k:26014**
Hong, Jia Xing Surface in $\mathbf{R}^3$ with prescribed Gauss curvature. **89b:53007**
Ioffe, A. D. Global surjection and global inverse mapping theorems in Banach spaces. **89k:47111**
Jankó, Béla On a unified theory of iteration methods for solving nonlinear operator equations. II. **89h:47102**
Jin, Chong Fang Newton-like methods for solving singular problems. (Chinese. English summary) **89j:65047**
Keller, H. B. ★ Lectures on numerical methods in bifurcation problems. **89f:58031**
Kolev, L. V. A quasi-Newton algorithm for following solution curves. **89a:65087**
Lerner, Nicolas Principe d'incertitude et microlocalisation (d'après C. Fefferman et D. H. Phong). [Uncertainty principle and microlocalization (following C. Fefferman and D. H. Phong)] **89h:35014**
Li, Tien-Yien (*with* Sauer, Tim; Yorke, James A.) Numerically determining solutions of systems of polynomial equations. **89d:65057**
Makhmudov, A. P. (*with* Aliev, Z. S.) On a nonlinear analogue of the implicit method in the theory of perturbations of an isolated eigenvalue. **89a:47087**
Marin, Alexis Géométrie des polynômes: Côut global moyen de la méthode de Newton (d'après M. Shub et S. Smale). [Geometry of polynomials: average global cost of Newton's method (following M. Shub and S. Smale)] **89g:58030**
Moscatelli, Vincenzo Bruno (*with* Simões, Marilda A.) Generalized Nash-Moser smoothing operators and the structure of Fréchet spaces. **89i:46006**
(Nandakumaran, A. K.) *see* **Keller, H. B., 89f:58031**
Ng, Kung Fu An inequality implicit function theorem. **89a:46095**

Park, Jong An (*with* Bae, Jong Sook) A surjectivity theorem for a nonlinear operator with Altman's directional contractors. **89h:47106**
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Tsuchiya, Takuya Enlargement procedure for resolution of singularities at simple singular solutions of nonlinear equations. **89b:65127**
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58C20 Differentiation theory (Gâteaux, Fréchet, etc.) [see also 26Exx, 46Gxx]

Borwein, J. M. (*with* Fitzpatrick, Simon; Giles, J. R.) The differentiability of real functions on normed linear space using generalized subgradients. **89b:58027**
Castañeda Bravo, Fernando The structure of continuous convergence and its importance in differential calculus in nonnormable spaces. (Spanish. English summary) **89e:58013**
Fabían, M. (*with* Preiss, D.) On the Clarke's generalized Jacobian. **89d:58016**
Fitzpatrick, Simon *see* **Borwein, J. M.; et al., 89b:58027**
Giles, J. R. *see* **Borwein, J. M.; et al., 89b:58027**
Nesterov, Yu. E. The technique of nonsmooth differentiation. **89g:58018**
Pallaschke, Diethard (*with* Recht, Peter; Urbański, Ryszard) On extensions of the second-order derivative. (Russian summary) **89m:58020**
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Seppälä, Veikko On nonlinear calculus in normed linear spaces endowed with an additional binary operation. **89g:58019**
Shapiro, Alexander Directional differentiability of metric projections onto moving sets at boundary points. **89g:58020**
Truong Xuan Duc Ha The Sard's theorem for a class of locally Lipschitz mappings. **89k:58033**
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Verona, Maria Elena More on the differentiability of convex functions. **89f:58016**
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Bedel′baev, A. A. Correctness of the definition of second-order subdifferentials. (Russian) **89a:49017**
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Borwein, J. M. Epi-Lipschitz-like sets in Banach space: theorems and examples. **89b:90225**
Caraman, Petru Differentiability of quasiconformal mappings in abstract Wiener spaces. **89h:46068a**
— Corrigenda to: "Differentiability of quasiconformal mappings in abstract Wiener spaces". **89h:46068b**
Chaney, Robin W. Second-order directional derivatives for nonsmooth functions. **89c:90092**
Cherkasskiĭ, B. V. *see* **Nesterov, Yu. E., 89b:90190**
Clarke, Frank H. ★ Оптимизация и негладкий анализ. (Russian) [Optimization and nonsmooth analysis] **89m:49028**
Cominetti, Roberto (*with* Correa, Rafael) A useful characterization of Clarke derivatives. **89g:49022**
Correa, Rafael *see* **Cominetti, Roberto, 89g:49022**
Dietrich, H. Zur *c*-Konvexität und *c*-Subdifferenzierbarkeit von Funktionalen. (English summary) [On *c*-convexity and *c*-subdifferentiability of functionals] **89j:90268**
Gnatyuk, V. O. (*with* Shchirba, V. S.) Some criteria for the global Lipschitz property of functions. (Russian) **89g:26002**
He, Chong Generalized derivatives of a region function and its applications. **89e:26011**
Kock, Anders (*with* Reyes, Gonzalo E.) Corrigendum and addenda to the paper: "Convenient vector spaces embed into the Cahiers topos" [Cahiers Topologie Géom. Différentielle Catégoriques **27** (1986), no. 1, 3–17, MR 87m:58009a] by Kock. (French summary) **89d:58002**
Kolokol′tsov, V. N. (*with* Maslov, V. P.) General form of endomorphisms in the space of continuous functions with values in a numerical commutative semiring (with the operation $\oplus = \max$). **89h:47044**
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Łędzewicz-Kowalewska, Urszula Application of the method of contractor directions to the Dubovitskiĭ-Milyutin formalism. **89b:90226**
Levashov, V. A. Subdifferential analogues of a theorem of Mil′man. (Russian) (*see* 89c:00006)
Loewen, Philip D. The proximal normal formula in Hilbert space. **89b:49017**
— The proximal subgradient formula in Banach space. **89k:49010**
Maslov, V. P. *see* **Kolokol′tsov, V. N., 89h:47044**
Maslyuchenko, V. K. A property of partial derivatives. (Russian) **89a:46094**
Nesterov, Yu. E. (*with* Cherkasskiĭ, B. V.) Lexicographic rules for the differentiation of nonsmooth functions. **89b:90190**
Nguyen, V. H. *see* **Strodiot, J.-J., 89j:49007**
Papatriantafillou, Maria H. Finsler structures on *A*-bundles. **89d:58013**
Penot, Jean-Paul About linearization, conization, calmness, openness and regularity. **89d:90236**
— On the mean value theorem. **89i:26005**
— Erratum: "Differentiability of relations and differential stability of perturbed optimization problems" [SIAM J. Control Optim. **22** (1984), no. 4, 529–551; MR 85i:49041]. **89d:49027**
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Seeger, Alberto Second order directional derivatives in parametric optimization problems. **89d:90217**
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Strodiot, J.-J. (*with* Nguyen, V. H.) On the numerical treatment of the inclusion $0 \in \partial f(x)$. **89j:49007**
Ta'eed, Latha K. (*with* Ta'eed, O.; Wright, J. E.) Determinants involved in the perception of the Necker cube: an application of catastrophe theory. (Not in MR)
Ta'eed, O. *see* **Ta'eed, Latha K.; et al.**, (Not in MR)
Uglanov, A. V. The Newton-Leibniz formula on Banach spaces and the approximation of functions of an infinite-dimensional argument. (Russian) **89m:46085**
Ursescu, Corneliu On the calculus of some topologically open tangent sets. (Italian summary) **89a:90114**
Ward, Doug Isotone tangent cones and nonsmooth optimization. **89d:90206**
Wright, J. E. *see* **Ta'eed, Latha K.; et al.**, (Not in MR)
Zalesskiĭ, B. A. Accuracy of normal approximation in Banach spaces. **89h:60014**
Ziemian, Bogdan Taylor formula for distributions. **89h:46065**

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Bierstone, Edward (*with* Milman, Pierre D.) Local analytic invariants and splitting theorems in differential analysis. **89g:58021**
Bronshteĭn, M. D. Division theorems in spaces of functions of finite smoothness and in Gevrey spaces. (Russian) **89f:58018**
— On the representation of symmetric functions in Gevrey-Carleman spaces. (Russian) **89b:58028**
Buchner, Michael A. (*with* Kucharz, W.) Topological triviality of a family of zero-sets. **89b:58029**
Butler, G. J. (*with* Timourian, J. G.; Viger, C.) The rank theorem for locally Lipschitz continuous functions. **89j:58008**
Chua, Leon O. (*with* Deng, An-Chang) Canonical piecewise-linear representation. **89c:58015**
Deng, An-Chang *see* **Chua, Leon O., 89c:58015**
Dubois-Violette, Michel Dérivations et calcul différentiel non commutatif. (English summary) [Derivations and noncommutative differential calculus] **89k:58035**
Holm, P. The theorem of Brown and Sard. **89b:58030**
Izrailevich, Ya. A. On the theory of singular points of iterative processes. (Russian) **89g:58022**
Jasiński, Grzegorz A necessary condition for the existence of the extension operator from the Fréchet algebra of Whitney fields on a locally closed subset of $\mathbf{R}^n$. **89g:58023**
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Madgerova, Andreana S. On the geometrical description of some ideals. **89k:58036**
Milman, Pierre D. *see* **Bierstone, Edward, 89g:58021**
Phan Quốc Khánh An open mapping theorem for families of multifunctions. **89d:58018**
Sadyrkhanov, R. S. The openness of mappings with singularities in Banach spaces. **89m:58021**
Švarc, Rudolf Some combinatorial results about the operators with jumping nonlinearities. **89h:58020**
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Viger, C. *see* **Butler, G. J.; et al., 89j:58008**
Wang, Qi Ming On a pròblem of J. Milnor. **89k:58037**
Yomdin, Y. Approximational complexity of functions and entropy. **89m:58022b**
— Complexity of functions and entropy. **89m:58022a**

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Bonanno, Giacomo (*with* Zeeman, E. Christopher) Divergence of choices despite similarity of characteristics: an application of catastrophe theory. **89h:90054**
Bronshteĭn, M. D. Division theorems for hyperbolic polynomials. **89g:35064**
Church, P. T. (*with* Timourian, J. G.) The singular set of a nonlinear elliptic operator. **89i:58020**
Coghlan, Leslie Tight stable surfaces. I. **89b:57018**
Coquereaux, Robert Comments about the geometry of nonlinear sigma models. **89f:81165**
Crouzeix, Michel (*with* Raugel, Geneviève) Invariance under the dihedral group and application to bifurcation problems. **89b:58045**
Galindo, Pablo On Whitney's extension operator and the representation of the spaces $B_1^k(\Omega, E)$. (Spanish. English summary) **89g:46046**
— (*with* Maestre, Manuel) Representation of the spaces $\mathscr{C}_F^k(V, E)$ and $\mathscr{D}_F^k(V, E)$ $(1 \leq k \leq \infty)$. (Spanish. English summary) **89g:46073**
Gromov, Mikhael L. Entropy, homology and semialgebraic geometry. **89f:58082**
Heble, M. P. Approximation of differentiable functions on a Hilbert space. III. **89k:41040**
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Kabaya-Imai, Keiko (*with* Iri, M.) Sum of uniformly distributed random variables and a family of nonanalytic C^∞-functions. **89d:26023**
Katznelson, Y. (*with* Malliavin, Paul) Un contre-exemple au théorème de Sard en dimension infinie. (English summary) [A counterexample to the Sard theorem in infinite dimension] **89g:58032**
Kucharz, W. Real algebraic curves and complete intersections. **89g:14013**
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Malliavin, Paul *see* **Katznelson, Y., 89g:58032**
Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) Density of transversality in multijets of manifolds with angular boundary. (Spanish) **89k:58015**
Marston, Philip L. Erratum: "Transverse cusp diffraction catastrophes: some pertinent wave fronts and a Pearcey approximation to the wavefield" [J. Acoust. Soc. Amer. **81** (1987), no. 2, 226–232; MR 88c:73027]. **89d:73016**

Mirzakhanyan, È. A. Some properties of continuously differentiable mappings of the subsets of a Hilbert space. (Russian. Armenian summary) **89f:46094**
— A theorem on the invariance of the domain of a Hilbert space under K_0-diffeomorphisms. (Russian. Armenian summary) **89f:46095**
— An infinite-dimensional generalization of a theorem of Borsuk on the unbounded component. (Russian. Armenian summary) **89e:55016**
Misra, O. P. Some important results of distribution theory. (*see* **89i:00025**)
Mitchell, John William (*with* Rubel, Lee A.) Every smooth map of Euclidean space into itself is an expansion followed by a contraction. **89m:26023**
Ngô Anh Tú Lokale Darstellungen differenzierbarer Funktionen auf Banachräumen. (English and Russian summaries) [Local representations of differentiable functions on Banach spaces] **89h:58018**
Nishimura, Takashi Topologically ∞-determined map germs are topologically cone-like. **89k:58042**
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Norton, Alec Functions not constant on fractal quasi-arcs of critical points. **89m:28013**
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58C27 Singularities of differentiable maps [see also 14B05, 14E15, 32Bxx, 32C40, 32C45]

Aleksandrov, A. G. The de Rham complex of nonisolated singularities. **89h:58021**
Ando, Yoshifumi Erratum to: "On the elimination of Morin singularities" [J. Math. Soc. Japan 37 (1985), no. 3, 471–487; MR 87h:58018]. **89b:58031**
Arnol'd, V. I. (*with* Guseĭn-Zade, S. M.; Varchenko, A. N.) ★ Singularities of differentiable maps. Vol. II. **89g:58024**
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Bakhtin, V. I. The topological normal forms of metamorphoses of caustics of the series D_μ. (Russian) **89j:58009**
Belitskiĭ, G. R. (*with* Lisyanoĭ, V. F.) Classification of formal mappings of linear spaces. (Russian) **89f:58019**
Birbrair, L. B. (*with* Sapronov, Yu. I.) Linear classification of quadratic mappings in the space $\mathbf{C}^3$. (Russian) **89h:58022**
Bruce, James William (*with* Giblin, Peter J.) ★ Кривые и особенности. (Russian) [Curves and singularities] **89h:58023**
— Stable mappings of discriminant varieties. **89d:58019**
Buchner, K. Sard's theorem on Banach manifolds. **89e:58014**
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Chislenko, Yu. S. Decompositions of simple singularities of real functions. **89m:58023**
Chynoweth, S. (*with* Porter, David; Sewell, M. J.) The parabolic umbilic and atmospheric fronts. **89i:58010**
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Edwards, Sarah Ann (*with* Wall, C. T. C.) Nets of quadrics and deformations of $\Sigma^{3(3)}$ singularities. **89i:58011**
Ertinger, Z. Singularities in the theory of electric circuits. (Czech summary) **89g:58025**
Fukuda, Takuo (*with* Ishikawa, Goo) On the number of cusps of stable perturbations of a plane-to-plane singularity. **89b:58032**
— Topology of folds, cusps and Morin singularities. **89a:58015**
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Gudkov, D. A. Plane real projective quartic curves. **89i:58012**
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Holm, P. (*with* Johannesen, S.) On subtransversality. **89b:58033**
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Janeczko, Stanisław Singularities in the geometry of an obstacle. **89k:58038**
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— (*with* Kowalczyk, Adam) Isotropic varieties in the singular symplectic geometry. **89m:58025**
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Kashchenko, S. A. Miniversal deformations of matrices. **89f:58020**
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Kowalczyk, Adam The preparation theorem for composite functions. **89a:58017**
— *see also* **Janeczko, Stanisław, 89m:58025**
Kuchko, L. P. Multidimensional functional equations and the normalization of local matrix functions. **89f:58021**
— Existence and uniqueness of the solutions of multidimensional functional equations. **89d:58020**
Li, Yang Cheng On the estimates of the order of finitely $\mathscr{A}_k$-determined map-germs. **89k:58040**
— Some results on right equivalence of map-germs. (Chinese summary) **89k:58041**
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Nishimura, Takashi Topologically ∞-determined map germs are topologically cone-like. **89k:58042**
— Topological types of finitely-C^0-K-determined map-germs. **89h:58026**
Pedroso, Hermes Antonio (*with* Tadini, Wilson Mauricio) Classification and adjacency of orbits of bivariate homogeneous cubics. (Portuguese. English summary) **89h:58027**
Pham, F. Remarque sur une notion de déploiement introduite par K. Saito. [Remark on a notion of unfolding introduced by K. Saito] **89b:58034**
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Porter, David *see* **Chynoweth, S.; et al., 89i:58010**
Poston, Tim (*with* Stewart, Ian) The cross-ratio foliation of binary quartic forms. **89i:58013**
Preissmann, Emmanuel (*with* Joris, Henri) Germes pseudo-immersifs de $(\mathbf{R}^n, 0)$ dans $(\mathbf{R}^n, 0)$. (English summary) [Pseudoimmersive germs from $(\mathbf{R}^n, 0)$ to $(\mathbf{R}^n, 0)$] **89g:58026**
Rosen, Robert How universal is a universal unfolding? **89e:58015**
Roussarie, R. Déformations génériques des cusps. (English summary) [Generic deformations of cusps] **89c:58017**
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Selby, Alan M. Determinacy of sufficiently differentiable maps. **89g:58027**
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Yoshinaga, Etsuo Topologically principal part of analytic functions. **89m:58026**
Zhang, Guo Bin (*with* Cao, Yi) Mistakes in the paper "New proofs of some theorems on infinitely differentiable functions" [Bull. Austral. Math. Soc. 17 (1977), no. 2, 161–175; MR 57 #7650] by M. A. B. Deakin. **89m:58027**

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Armbruster, D. (*with* Guckenheimer, John; Holmes, Philip) Heteroclinic cycles and modulated travelling waves in systems with O(2) symmetry. **89h:58136**
Arnol'd, V. I. Contact structure, relaxation oscillations and singular points of implicit differential equations. (Russian) **89f:58121**
— Remarks on Poisson structures on a plane and on other powers of volume elements. (Russian. English summary) **89e:58040**
Asatryan, A. A. (*with* Kravtsov, Yu. A.) Localization of complex rays using Gaussian windows, and the limits of the applicability of complex geometric optics. **89j:78010**
Bahar, Leon Y. *see* **Kwatny, Harry G., 89m:34074**
Barlet, D. (*with* Varchenko, A. N.) Around the intersection form of an isolated singularity of hypersurface. **89j:32012**
Berger, M. S. (*with* Church, P. T.; Timourian, J. G.) Folds and cusps in Banach spaces with applications to nonlinear partial differential equations. II. **89d:35056**
Bierstone, Edward (*with* Milman, Pierre D.) Semianalytic and subanalytic sets. **89k:32011**
Billeke, Jorge (*with* Wallace C., Myrna) Bifurcations of codimension one singularities of tangent vector fields on Whitney's umbrella. **89i:58102**
— (*with* Wallace C., Myrna) Bifurcations génériques de singularités de champs de vecteurs tangents au cône de $\mathbf{R}^3$. (English summary) [Generic bifurcations of singularities of vector fields tangent to the cone in $\mathbf{R}^3$] **89g:58145**
Bliznyakov, N. M. Estimates for the topological index. (Russian) **89b:58146**
Bogaevskiĭ, V. N. (*with* Povzner, A. Ya.) Algebraic methods in perturbation theory. (Russian) **89k:34098**
Bogdanov, E. I. *see* **Nagibarova, I. A.; et al., 89g:81102**
Böhmer, Klaus *see* **Allgower, E. L., 89h:58040**
Camacho, M. I. Quasi-homogeneous vector fields of degree 2 in $\mathbf{R}^3$. **89i:58062**
Chermnykh, S. V. Normal forms of holomorphic mappings, differential equations and infinite matrices. (Russian) **89h:32018**
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Cohen, Ralph L. A decomposition of the space of generalized Morse functions. **89c:57044**
Coullet, P. (*with* Repaux, D.) Models of pattern formation from a singularity theory point of view. **89g:58148**
Crawford, John David (*with* Knobloch, Edgar) Classification and unfolding of degenerate Hopf bifurcations with O(2) symmetry: no distinguished parameter. **89j:58091**
— (*with* Knobloch, Edgar) Symmetry-breaking bifurcations in O(2) maps. **89h:58041**
Damon, James Topological equivalence of bifurcation problems. **89e:58080**
Deryugin, I. A. *see* **Nagibarova, I. A.; et al., 89g:81102**
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58C40 Spectral theory; eigenvalue problems [see also 58E07]

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Chien, Cheng Sheng Multiple bifurcations on 3D eigenvalue problems. **89g:58038**
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Tysk, Johan Finiteness of index and total scalar curvature for minimal hypersurfaces. **89g:53093**
Vishik, S. M. Analytic torsion of finite-dimensional local systems. **89k:58275**

58C50 Analysis on supermanifolds or graded manifolds

Bruzzo, Ugo Lagrangian gauge theories on supermanifolds. **89b:58037**
Hernández Ruipérez, Daniel (*with* Muñoz Masqué, Jaime) Variational Berezinian problems and their relationship with graded variational problems. **89b:58038**
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Lohoué, Noël Estimation des fonctions de Littlewood-Paley-Stein sur les variétés riemanniennes à courbure non positive. [Estimation of Littlewood-Paley-Stein functions on Riemannian manifolds with nonpositive curvature] **89c:42024**
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58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57Q05]

Banyaga, Augustin On isomorphic classical diffeomorphism groups. II. **89h:58032**
Goswami, P. *see* **Lord, Eric A., 89b:58039**
Harari, Diego (*with* Hong, Deog Ki; Ramond, P.; Rodgers, V. G. J.) The superstring, $\mathrm{Diff}\, S^1/S^1$, and holomorphic geometry. **89d:58021**
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58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47Dxx, 47H20]

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58D10 Spaces of imbeddings and immersions

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Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) Density of transversality in multijets of manifolds with angular boundary. (Spanish) **89k:58015**
Outerelo Domínguez, Enrique *see* **Margalef Roig, Juan, 89k:58015**

58D15 Manifolds of mappings [see also 54C35]

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58D17 Manifolds of metrics (esp. Riemannian)

Carfora, Mauro (*with* Marzuoli, Annalisa) Model geometries in the space of Riemannian structures and Hamilton's flow. **89c:58020**
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Dineen, S. (*with* Timoney, R. M.) Irreducible domains in Banach spaces. **89a:46102**
Itoh, Mitsuhiro Geometry of anti-self-dual connections and Kuranishi map. **89a:53037**
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Nadel, Alan Singularities and Kodaira dimension of the moduli space of flat Hermitian-Yang-Mills connections. **89k:32056**
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58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

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Koval'chik, I. M. A nonlinear transformation of Gaussian measures. (Russian) **89f:60043**
Meyer, P.-A. *see* **Hu, Yao Zhong, 89k:60070**

58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15]

Babin, A. V. (*with* Vishik, M. I.) Spectral and stabilized asymptotic behavior of the solutions of nonlinear evolution equations. (Russian) **89k:58048**
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Bouleau, N. (*with* Hirsch, F. A.) Sur des propriétés du flot d'une équation différentielle stochastique. (English summary) [Remarks about the flow of a stochastic differential equation] **89a:60140**
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Choquet-Bruhat, Yvonne Problème de Cauchy pour les modèles gravitationnels avec termes de Gauss-Bonnet. (English summary) [The Cauchy problem for gravitational models with Gauss-Bonnet terms] **89i:58146**
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Darling, R. W. R. Constructing stochastic flows: some examples. **89i:60123**
— (*with* Le Jan, Y.) The statistical equilibrium of an isotropic stochastic flow with negative Lyapounov exponents is trivial. **89j:60073**
Demengel, Françoise (*with* Ghidaglia, Jean-Michel) Discrétisation en temps et variétés inertielles pour des équations d'évolution aux dérivées partielles non linéaires. (English summary) [Time-discretization and inertial manifolds for nonlinear evolution partial differential equations] **89h:35144**
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Doering, Charles R. (*with* Gibbon, J. D.; Holm, Darryl D.; Nicolaenko, Basil) Low-dimensional behaviour in the complex Ginzburg-Landau equation. **89g:35095**
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Hu, Yao Zhong (*with* Meyer, P.-A.) Chaos de Wiener et intégrale de Feynman. [Wiener chaos and the Feynman integral] **89m:60193**
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Kaptsov, O. V. Elliptic solutions of the stationary Euler equations. **89c:35042**
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— A limit theorem for stochastic partial differential equations. **89d:60110**
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Marsden, Jerrold E. The Hamiltonian formulation of classical field theory. **89g:58073**
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Mora, X. Finite-dimensional attracting invariant manifolds for damped semilinear wave equations. **89f:35139**
Mukminov, F. Kh. (*with* Sokolov, V. V.) Integrable evolution equations with constraints. **89a:35197**
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Pavlov, M. V. Hamiltonian formalism of weakly nonlinear systems in hydrodynamics. (Russian. English summary) **89b:58098**
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Serizawa, Hisamitsu A semigroup treatment of a one-dimensional nonlinear parabolic equation. **89k:35110**
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Vishik, M. I. (*with* Fursikov, A. V.) ★ Mathematische Probleme der statistischen Hydromechanik. (German) [Mathematical problems of statistical hydromechanics] **89h:35271**
— *see also* **Babin, A. V., (89j:00030)**

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

Andersson, Lars Åke Momenta and reduction for general relativity. **89m:58032**
Baranov, Yu. S. (*with* Gliklikh, Yu. E.) A mechanical constraint on the group of volume-preserving diffeomorphisms. **89m:58033**
Gliklikh, Yu. E. *see* **Baranov, Yu. S., 89m:58033**
Goncharov, Yu. P. (*with* Spokoĭnyĭ, B. L.) Linear real bundles, spinorial structures and automorphic forms in quantum geometry of strings. **89e:58022**
Gorokhov, A. V. Integrals over trajectories on compact Kähler manifolds. (Russian) (*see* **89d:81002**)
Grosche, C. (*with* Steiner, F.) Path integrals on curved manifolds. **89h:58034**
Johnson, Gerald W. (*with* Skoug, David) Stability theorems for the Feynman integral. **89b:58042**
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Mickelsson, Jouko String quantization on group manifolds and the holomorphic geometry of Diff S^1/S^1. **89b:58043**
Morales, Pedro Product integral for finite-dimensional Lie algebra-valued functions. **89i:58017**
Pilch, K. (*with* Warner, N. P.) Holomorphic structure of superstring vacua. **89c:58022**
Schwarz, Günter On electromagnetic fields in the Hamiltonian description of continua. **89f:58025**
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Solov'ev, M. A. On the group of gauge transformations and Singer's theorem. **89m:58035**
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Albeverio, S. Some points of interaction between stochastic analysis and quantum theory. **89h:81041**

Alekseev, A. Yu. (*with* Madajczyk, J.; Faddeev, L. D.; Shatashvili, S. L.) Derivation of an anomalous commutator in the formalism of a functional integral. (Russian. English summary) **89g:81041**

Anderson, Arlen Nontrivial homotopy and tunneling by topological instantons. **89d:81057**

Antoniadis, I. (*with* Ditsas, P.; Floratos, E. G. F.; Iliopoulos, J.) New realizations of the Virasoro algebra as membrane symmetries. **89i:17012**

Arsenault, Guy (*with* Jacques, Michel; Saint-Aubin, Yvan) $\mathrm{SL}(n+1,\mathbf{C})$ strata and orbits in the solution space of Euclidean $\mathbf{CP}^n$ models. (French summary) **89b:81114**

Bartels, J. (*with* Falck, N. K.) Path integral on a group manifold and the lattice gauge theory Hamiltonian. **89j:81055**

Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. I. **89d:53120**

— (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. II. **89d:53121**

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Bowick, M. J. (*with* Rajeev, S. G.) String theory as the Kähler geometry of loop space. **89a:22034a**

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Bukhbinder, I. L. (*with* Lyakhovich, S. L.) Canonical quantization of theories with higher derivatives. Quantization of R^2-gravity. (Russian. English summary) **89a:83035**

Chang, Joo Sup Stability theorems for the Feynman integral: the $\mathscr{L}(L_1(\mathbf{R}), C_0(\mathbf{R}))$ theory. **89f:81056**

Choquet-Bruhat, Yvonne Spin $\frac{1}{2}$ fields in arbitrary dimensions and the Einstein-Cartan theory. **89e:53107**

— Non existence de solutions globales de certaines équations d'onde non linéaires sur une variété. (English summary) [Nonexistence of global solutions of some nonlinear wave equations on a manifold] **89f:58024**

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— Cas d'existence globale de solutions de l'équation $\Box u = A|u|^p$. (English summary) [Case of global existence of solutions of the equation $\Box u = A|u|^p$] **89g:35070**

Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89d:53120** *and* **89d:53121**

Crnković, Čedomir (*with* Witten, Edward) Covariant description of canonical formalism in geometrical theories. (*see* **89b:83007**)

DeFacio, B. (*with* Brander, O.) Coherent-state path-integral formulation of inverse scattering theory. **89h:81253**

DeWitt-Morette, Cécile Path integration. **89f:58022**

D'Hoker, Eric (*with* Phong, D. H.) The geometry of string perturbation theory. **89m:81132**

Dieckmann, Jan Cauchy surfaces in a globally hyperbolic space-time. **89e:83009**

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Doi, Hideo Nonlinear equations on a Lie group. **89e:58019**

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Floratos, E. G. F. *see* **Antoniadis, I.; et al., 89i:17012**

Gao, Yi Hong String models and the geometry of the mapping space. (Chinese. English summary) **89j:81140**

Garczyński, Włodzimierz Measure in the functional integral over the configuration space. **89k:81040**

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Grosche, C. (*with* Steiner, F.) The path integral on the pseudosphere. **89j:81056**

— The product form for path integrals on curved manifolds. **89e:81041**

Hong, Deog Ki The conformal factor and Diff S^1/S^1. **89i:81113**

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Isenberg, James A. Parametrization of the space of solutions of Einstein's equations. **89d:83011**

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Jaskólski, Z. The integration of G-invariant functions and the geometry of the Faddeev-Popov procedure. **89b:81196**

— On the Gribov ambiguity in the Polyakov string. **89g:81078**

Johnson, Gerald W. Feynman's paper revisited. **89e:81044**

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Klainerman, S. Linear and nonlinear field equations. **89d:53125**

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Kubo, Reijiro Path integration on the upper half-plane. **89h:81053**

— Geometry, heat equation and path integrals on the Poincaré upper half-plane. **89m:81057**

Lukierski, J. Supersymmetric extension of twistor formalism. **89a:58009**

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Mansfield, P. The relationship among canonical quantisation, Polyakov's functional integral and BRST quantisation of the string. **89c:81145**

Menskiĭ, M. B. The interaction of strings—on the basis of a path group. (Russian) (*see* **89d:81001**)

Morozov, A. Yu. (*with* Roslyĭ, A. A.) Partition functions for open and/or oriented strings. **89g:32032**

Nakajima, Hiraku Compactness of the moduli space of Yang-Mills connections in higher dimensions. **89g:58050**

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Oh, Phillial (*with* Ramond, P.) Curvature of super $\mathrm{Diff}(\mathrm{S}^1)/(\mathrm{S}^1)$. **89b:58025**

Parthasarathy, Ragavachariar On Gribov ambiguity in finite temperature abelian gauge theory. **89g:81051**

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Polchinski, J. From Polyakov to moduli. (*see* **89m:81001**)

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Redlich, A. N. Diffeomorphism parameters as coordinates in string field theory. **89h:81226**

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Saraykar, R. V. Structure of the space of solutions of Einstein's equations: a new variables approach. **89f:83014**

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Storchak, S. N. Reparametrization of paths in the path integral on a finite-dimensional manifold. **89m:81058**

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Torriani, Hugo H. A problem about Feynman integrals on Riemannian manifolds. **89f:81057**

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Wang, Rong Tai (*with* Ni, Guang Jiong) The chiral anomaly—from path integral method to differential geometric approach. **89m:81167**

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Zhao, Zhi Yong (*with* Wu, Ke; Saito, Takesi) Superstring field theories on super-flag manifolds: superdiff S^1/S^1 and superdiff S^1/super S^1. **89a:58012**

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Itoh, Mitsuhiro Singularities of the moduli space of Yang-Mills fields. **89d:58023**

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Alvarez, Orlando (*with* Windey, P.) The geometrical meaning of currents in string theory. (*see* **89m:81001**)

Arakelyan, T. A. (*with* Savvidi, G. K.) Cocycles of area-preserving diffeomorphisms and anomalies in the theory of relativistic surfaces. **89j:81154**

Arnol'd, V. I. The asymptotic Hopf invariant and its applications. **89m:58053**

Chen, Yi Xin *see* **Hou, Bo Yu; et al., 89k:81146**

Doi, Hideo (*with* Matsumoto, Yukio; Matumoto, Takao) An explicit formula of the metric on the moduli space of BPST-instantons over S^4. **89f:53044**

Fukaya, Kenji A boundary of the set of the Riemannian manifolds with bounded curvatures and diameters. **89h:53090**

Grove, Karsten (*with* Petersen, Peter, V; Wu, Jyh Yang) Controlled topology in geometry. **89m:53062**

Hou, Bo Yu (*with* Chen, Yi Xin; Zhang, Yao Zhong) Cohomological analysis in Skyrme model and boundary effect of chiral bag model. **89k:81146**

Matsumoto, Yukio *see* **Doi, Hideo; et al., 89f:53044**

Matumoto, Takao Hyperbolic metric on the moduli space of BPST-instantons over S^4. **89f:53045**

— *see also* **Doi, Hideo; et al., 89f:53044**

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Ruback, Peter Vortex string motion in the abelian Higgs model. **89f:53111**

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Tian, Gang Smoothness of the universal deformation space of compact Calabi-Yau manifolds and its Petersson-Weil metric. (*see* **89m:81001**)

Windey, P. *see* **Alvarez, Orlando, (89m:81001)**

Wu, Jyh Yang *see* **Grove, Karsten; et al., 89m:53062**

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Minimax results of Lusternik-Schnirelman type and applications ★ Minimax results of Lusternik-Schnirelman type and applications. **89k:58050**

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58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel′man) theory, etc.)

Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Critical points with lack of compactness and singular dynamical systems. **89e:58023**

— Variational problems in nonlinear analysis. **89h:58037**

Bahri, Abbas Superlinear elliptic equations. **89a:58023**

— Critical points at infinity in the variational calculus. **89k:58052**
Benci, Vieri A new approach to the Morse-Conley theory. **89a:58024**
Blot, Joël Calculus of variations in mean and convex Lagrangians. **89k:58053**
Bougeard, Mireille L. Morse theory for some lower-C^2 functions in finite dimension. **89k:58054**
Capozzi, A. On a class of nonlinear problems with lack of compactness. **89a:58025**
Coffman, Charles V. Lyusternik-Schnirelman theory: complementary principles and the Morse index. **89g:58037**
Coimbra, C. A. Scalar steady-state in population biology as a nonlinear eigenvalue problem. **89m:58036**
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Crouzeix, Michel (*with* Geymonat, G.; Raugel, Geneviève) Some remarks about the Morse lemma in infinite dimension. **89c:58023**
Dancer, E. N. Degenerate critical points, homotopy indices and Morse inequalities. II. **89h:58038**
Geymonat, G. *see* **Crouzeix, Michel; et al., 89c:58023**
Guo, Da Jun (*with* Sun, Jing Xian; Qi, Gui Jie) Some extensions of the mountain pass lemma. **89e:58024**
Lazer, A. C. (*with* Solimini, S.) Nontrivial solutions of operator equations and Morse indices of critical points of min-max type. **89i:58018**
Lehtonen, Ari *see* **Nečas, Jindřich; et al., 89e:58026**
Le Ty Kuok Tkhang Structure of level surfaces of the Morse form. **89j:58014**
Li, Gong Bao Nonzero critical points of the functional $I(u) = \int_\Omega F(x, u, Du, \cdots, D^m u)dx$ in $W_0^m L_\varphi(\Omega)$. (Chinese) **89e:58025**
— Multiple critical points of perturbed symmetric functionals in $W_0^{1,p}$. **89h:58039**
Mawhin, J. ★ Problèmes de Dirichlet variationnels non linéaires. (French) [Nonlinear variational Dirichlet problems] **89d:58024**
Mercuri, Francesco (*with* Palmieri, Giuliana) Morse theory with low differentiability. (Italian summary) **89f:58026**
Nečas, Jindřich (*with* Lehtonen, Ari; Neittaanmäki, Pekka) On the construction of Lusternik-Schnirelmann critical values with application to bifurcation problems. **89e:58026**
Neittaanmäki, Pekka *see* **Nečas, Jindřich; et al., 89e:58026**
Palmieri, Giuliana *see* **Mercuri, Francesco, 89f:58026**
Qi, Gui Jie Extension of Mountain Pass Lemma. **89e:58027**
— *see also* **Guo, Da Jun; et al., 89e:58024**
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Rybakowski, Krzysztof P. On critical groups and the homotopy index in Morse theory on Hilbert manifolds. (Italian summary) **89f:58027**
— ★ The homotopy index and partial differential equations. **89d:58025**
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Viterbo, Claude Indice de Morse des points critiques obtenus par minimax. (English summary) [The Morse index of critical points obtained by minimax] **89k:58055**
Wille, Friedrich On Ljusternik-Schnirelmann theory and degree theory. **89m:58037**
Zorich, A. V. The quasiperiodic structure of level surfaces of a Morse 1-form that is close to a rational form—the problem of S. P. Novikov. **89f:58028**

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Bahri, Abbas (*with* Coron, J.-M.) On a nonlinear elliptic equation involving the critical Sobolev exponent: the effect of the topology of the domain. **89c:35053**
Benci, Vieri (*with* Fortunato, Donato) A "Birkhoff-Lewis" type result for nonautonomous Hamiltonian systems. **89a:58038**
— Some applications of the Morse-Conley theory to the study of periodic solutions of second order conservative systems. **89d:58035**
Bertotti, Maria Letizia Forced oscillations of asymptotically linear Hamiltonian systems. (Italian summary) **89b:58176**
Budd, Chris Semilinear elliptic equations with near critical growth rates. **89c:35055**
Canino, Annamaria Large heteroclinic orbits for some evolution equations. **89m:35026**
Capietto, A. (*with* Zanolin, Fabio) An existence theorem for periodic solutions in convex sets with applications. **89g:34051**
Chaperon, Marc An old-fashioned method in the calculus of variations. **89g:58062**
Chen, Zu Chi (*with* Shen, Yao Tian) Nontrivial solutions of the Dirichlet problem for a class of nonlinear elliptic equations. **89c:35058**
Chow, S.-N. (*with* Lauterbach, Reiner) A bifurcation theorem for critical points of variational problems. **89d:58026**
Coclite, Mario Michele An existence result for variational problems and applications to some nonlinear hyperbolic and elliptic equations involving critical Sobolev exponents. **89g:47082**
Coron, J.-M. *see* **Bahri, Abbas, 89c:35053**
Cosner, Chris (*with* Schmitt, Klaus) On the geometry of level sets of positive solutions of semilinear elliptic equations. **89h:35020**
Coti Zelati, Vittorio Errata to: "Perturbations of second order Hamiltonian systems via Morse theory" [Boll. Un. Mat. Ital. C (6) **4** (1985), no. 1, 307–322; MR 87d:58058]. **89b:58068**
Degiovanni, Marco (*with* Giannoni, Fabio; Marino, Antonio) Periodic solutions of dynamical systems with Newtonian type potentials. **89a:58094**
Ding, Sun Hong Periodic solutions to a class of second-order equations with discontinuous characteristics. (Chinese) (Not in MR)
Ekeland, Ivar (*with* Hofer, Helmut) Global and local invariants for convex energy surfaces and their periodic trajectories: a survey. **89g:58064**
— Viterbo's proof of Weinstein's conjecture in $\mathbf{R}^{2n}$. **89i:58034**
— (*with* Lassoued, L.) Multiplicité des trajectoires fermées de systèmes hamiltoniens convexes. (English summary) [Multiplicity of the closed trajectories of convex Hamiltonian systems] **89b:58073**
— (*with* Hofer, Helmut) Convex Hamiltonian energy surfaces and their periodic trajectories. **89c:58035**
Feireisl, Eduard Free vibrations for the equation of a rectangular thin plate. (Russian and Czech summaries) **89h:35209**
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Xin, Yuan Long Liouville type theorems and regularity of harmonic maps. **89f:58046**

— Conservation laws and a theorem on the vanishing of harmonic forms. (Chinese) (Not in MR)

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Harmonic mappings, twistors, and σ-models ★ Harmonic mappings, twistors, and σ-models. **89h:58047**

Luminy ★ Harmonic mappings, twistors, and σ-models. **89h:58047**

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Bruzzo, Ugo (*with* Cianci, Roberto) Mathematical foundations of supermanifold field theories: action functional and reduction to spacetime. (Italian summary) **89g:58011**
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Mancini, Giovanni (*with* Musina, Roberta) Holes and obstacles. (French summary) **89m:35092**
Mawhin, J. Semicoercive monotone variational problems. **89e:49005**
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Puolokaĭnen, T. M. The smallest supersolution of the equation of a surface with given density of integral mean curvature. (Russian) **89h:53026**
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58E99 None of the above, but in this section

Chrastina, Jan Recent results on formal calculus of variations and formal theory of differential equations. **89e:58038**

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Voros, A. Spectral functions, special functions and the Selberg zeta function. **89b:58173**
— *see also* **Balazs, N. L.; et al., 89b:58171**

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Antonowicz, Marek (*with* Fordy, Allan) Coupled Harry Dym equations with multi-Hamiltonian structures. **89h:58074**
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Ceccatto, H. A. *see* **Keirstead, W. P.; et al., 89m:82007**
Demengel, Françoise (*with* Ghidaglia, Jean-Michel) Discrétisation en temps et variétés inertielles pour des équations d'évolution aux dérivées partielles non linéaires. (English summary) [Time-discretization and inertial manifolds for nonlinear evolution partial differential equations] **89h:35144**
Dyakin, V. V. (*with* Petrukhnovskiĭ, S. I.) On the discreteness of the spectrum of some operator pencils connected with the periodic Schrödinger equation. **89k:35163**
Fedoryuk, M. V. Asymptotic methods in analysis. (Russian) **89b:34134**
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Gingold, Harry In general, the less degeneracy the less transition. A principle for time-dependent Hamiltonian systems in quantum mechanics. **89g:81114**
Grammaticos, Basile (*with* Ramani, Alfred) Linéarisation et (non)-intégrabilité des équations de Yang-Mills. (English summary) [Linearization and (non)integrability of the Yang-Mills equations] **89j:58046**
Grigis, Alain Coefficients de réflexion pour les potentiels de Hardy. [Reflection coefficients for Hardy potentials] **89a:58110**
Grünbaum, F. Alberto Differential equations in the spectral parameter and multiphase similarity solutions. **89m:35193**
Handy, Carlos R. Nonnegativity and moment quantization for $|\Psi|^2$. **89b:81048**
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Jung, Christof Integrability and scattering systems. **89k:58182**
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Kim, Seung-hwan (*with* Ostlund, Stellan; Yu, Gang) Fourier analysis of multi-frequency dynamical systems. **89h:58122**
Komuro, Motomasa Normal forms of continuous piecewise linear vector fields and chaotic attractors. I. Linear vector fields with a section. **89m:58131a**
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Li, Tien-Yien (*with* Sauer, Tim; Yorke, James A.) Numerically determining solutions of systems of polynomial equations. **89d:65057**
Morriss, G. P. Dimensional contraction in nonequilibrium systems. **89j:82030**
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Robinson, Sam L. The semiclassical limit of quantum dynamics. I. Time evolution. **89c:81057**
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Šeba, P. Some remarks on the δ'-interaction in one dimension. **89e:81024**
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Trubowitz, Eugene *see* **Pöschel, Jürgen, 89b:34061** *and* **Ralston, James, 89m:34035**
Turbiner, A. V. (*with* Ushveridze, A. G.) Spectral singularities and quasi-exactly solvable quantal problem. **89a:81023**
Ushveridze, A. G. *see* **Turbiner, A. V., 89a:81023**
Yordanov, R. G. On the spectral theory of Λ-operators, generated by Schrödinger equations with energy-dependent potentials. **89e:34054**
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Ding, Miao Minimal periodic orbits of continuous maps of a circle with a fixed point. (Chinese. English summary) **89c:58103**
Efremova, L. S. Triangular mappings with a closed set of periodic points. (Russian) **89m:58168**
Fel′shtyn, A. L. The Nielsen, Artin-Mazur and Lefschetz zeta functions. (Russian) **89h:58155**
— (*with* Pilyugina, V. B.) Two theorems on the Nielsen zeta function. (Russian) **89h:58156**
— Zeta-functions in Nielsen theory. **89g:58173**
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Li, Shi Hai Some properties of continuous type 2^∞ unimodal mapping on [0, 1]. (Chinese summary) **89a:58093**
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Milnor, John Nonexpansive Hénon maps. **89g:58174**
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Tu, Pao Shêng Examples of expanding maps with some special properties. **89g:58176**

Wang, Kun Jian Periods of transformation of a star. (Chinese) **89f:58116**
Weiss, Alfred R. (*with* Rogers, Thomas D.) The number of orientation reversing cycles in the quadratic map. **89b:58174**
Xiong, Jin Cheng (*with* Yang, Run Sheng) A note on some dynamical properties of continuous self-maps of the circle. (Chinese. English summary) **89h:58160**
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Blokh, A. M. Letter to the editor: "Decomposition of dynamical systems on an interval" [Uspekhi Mat. Nauk **38** (1983), no. 5(233), 179–180; MR 86d:54060]. (Russian) **89b:54044**
Boyle, Mike Nasu's simple automorphisms. **89j:54041**
Chen, Qi Keith (*with* Meiss, J. D.; Percival, I. C.) Orbit extension method for finding unstable orbits. **89b:58066**
Danthony, Claude (*with* Nogueira, Arnaldo) Involutions linéaires et feuilletages mesurés. (English summary) [Linear involutions and measured foliations] **89k:57020**
Eckmann, J.-P. (*with* Wittwer, Peter) A complete proof of the Feigenbaum conjectures. **89b:58131**
Fedorenko, V. V. Simple one-dimensional dynamical systems. (Russian) **89i:58059**
Gaudin, Michel Vers le spectre du triangle? (English summary) [Toward the spectrum of the triangle?] **89e:58113**
Jiang, Bo Ju A characterization of fixed point classes. **89j:55004**
Koo, Ki-Shik Uniformly almost recurrence in dynamical systems. **89k:54097**
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Lutzky, M. Counting stable cycles in unimodal iterations. **89j:26007**
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Nusse, Helena E. (*with* Yorke, James A.) Period halving for $x_{n+1} = MF(x_n)$ where F has negative Schwarzian derivative. **89f:58104**
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van Strien, S. Smooth dynamics on the interval (with an emphasis on quadratic-like maps). **89m:58125**
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Zhou, Zuo Ling Chaos and topological entropy. (Chinese) **89i:26002**

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Biler, Piotr Formes normales d'équations différentielles au voisinage d'un point singulier. [Normal forms of differential equations in the neighborhood of a singular point] (*see* **89a:35004**)
Cai, Sui Lin (*with* Zhang, Ping Guang) Quadratic systems with a weak saddle. (Chinese) **89f:58117**
— Recent developments in the study of quadratic systems. (Chinese. English summary) **89k:58238**
Carbonell, Marc (*with* Llibre, Jaume) Limit cycles of a class of polynomial systems. **89i:58120**
Chen, Yi Yuan *P*-vectorfields on plane. **89j:58111**
Duan, Kui Chen On a problem suggested by V. I. Arnol′d. (Chinese) **89d:58105**
Écalle, Jean (*with* Martinet, Jean; Moussu, Robert; Ramis, Jean-Pierre) Non-accumulation des cycles-limites. I. (English summary) [Nonaccumulation of limit cycles. I] **89i:58121a**
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Holmes, C. A. Some quadratic systems with a separatrix cycle surrounding a limit cycle. **89e:58100**
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Khudaĭ-Verenov, M. G. Estimation of the number of algebraic integrals of the equation $y^1 = P/Q$ where P and Q are polynomials. (Russian) **89m:58170**
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Andreev, A. F. Conditions for a semicenter of a system of class C^2 with 1-jet $y\partial/\partial x$ at the singular point $0 = (0, 0)$. (Russian) **89j:34038**
Baltag, V. A. Qualitative investigation of a differential system with an algebraic integral. (Russian) **89g:34036**
Biberman, L. I. Bifurcation values of the parameters of generators of quasiharmonic oscillations. **89g:94043**
Blais, François Fleuves critiques. (English summary) [Critical rivers] **89k:34040**
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Cai, Sui Lin The weak saddle and separatrix cycle of a quadratic system. (Chinese) **89b:34068**
— (*with* Zhang, Ping Guang) A quadratic system with weak saddle. II. **89k:34041**
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Cao, Xian Tong (*with* Chen, Lan Sun) The problem of limit cycles of generalized Volterra equations. (Chinese) **89d:92053**
Chen, Guo Wei Some bounded cubic system. I. The E_3^1 system with one finite singular point. **89m:34044**
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Chen, Wei Feng A quadratic system with second-order weak focus. (Chinese. English summary) **89k:34042**
Chen, Zhi Yin (*with* Zhao, Shen Qi; Yan, Zhong; Sun, Jian Hua; Luo, Ding Jun) The qualitative-numerical method in the study of limit cycle problems of planar systems. (Chinese. English summary) **89d:34058**
Cheng, Pei Ji (*with* Zhang, Ji Zu) The calculation of the fixed points of the nonlinear equation $\ddot{x} + \delta\dot{x} - x + x^3 = f\cos\omega t$. (Chinese. English summary) **89h:58086**
Chow, S.-N. (*with* Li, Cheng Zhi^{1}; Wang, Duo) A simple proof of the uniqueness of periodic orbits in the 1 : 3 resonance problem. **89h:58140**
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Cosnard, Michel (*with* Moumida, Driss; Goles Ch., Eric; de St. Pierre, Thierry) Dynamical behavior of a neural automaton with memory. **89h:68109**
Drachman, B. (*with* van Gils, S. A.; Zhang, Zhi Fen) Abelian integrals for quadratic vector fields. **89h:34028**
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— (*with* Reyn, J. W.) Addendum to: "Phase portraits for quadratic systems with a higher order singularity. I. Third and fourth order points with two zero eigenvalues". **89g:34039b**
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— (*with* Smirnova, V. B.) The direct Lyapunov method and the problem of the existence of limit cycles of multidimensional dynamical systems. (Russian) (*see* **89c:00040**)
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— *see also* **Chow, S.-N.; et al., 89h:58140**
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Liu, Chao Jie The existence of limit cycles of the system $\dot{x} = \psi(y) - F(x, y)$, $\dot{y} = -g(x)$. **89h:34029**
Liu, Nan Gen On V. I. Arnol′d's problem—a stability criterion for a class of higher-order singular points. (Chinese) **89b:58116**
Liu, Yi Rong Formulas of focal values, center conditions and center integrals for the system $(\mathrm{E}_3^{(3)})$. **89j:34043**
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— (*with* Lynch, S.) Small-amplitude limit cycles of certain Liénard systems. **89g:34040**

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Sibirskiĭ, K. S. Invariants and questions of the qualitative investigation of two-dimensional differential systems. (Russian) **89j:34045**
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Smith, Hal (*with* Waltman, Paul) A classification theorem for three-dimensional competitive systems. **89d:58076**
Smith, Russell A. (*with* Thomas, E. S.) Some examples of transitive smooth flows on differentiable manifolds. **89e:58101**
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Wang, Mu Qiu (*with* Wang, Lian; Sun, Zhen Qi) An explanatory note on the chemical reaction model of I. Prigogine and R. Lefever. (Chinese) **89k:58223**
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Palmieri, Giuliana *see* **De Cecco, Giuseppe, 89b:58015**
Perrone, Domenico The signature of Kähler surfaces immersed into $\mathbf{CP}^m$. **89g:53103**
Reina, C. Spinors on compact Riemann surfaces. **89m:58191**
Saito, Satoru *see* **Osanai, A.; et al., 89g:81088**
Slebarski, Stephen The Dirac operator on homogeneous spaces and representations of reductive Lie groups. I. **89a:22028**
Solov′ev, M. A. On the group of gauge transformations and Singer's theorem. **89m:58035**
Stempak, Krzysztof An algebra associated with the generalized sub-Laplacian. **89e:47073**
Tajima, Shinichi Local cohomology and the absence of Poincaré lemma in tangential Cauchy-Riemann complexes. **89f:32019**
Taubes, Clifford Henry Gauge theories and nonlinear partial differential equations. **89m:58046**
Timourian, J. G. *see* **Church, P. T., 89i:58020**
Tondeur, Philippe *see* **Kamber, Franz W., 89d:53070**
Troitskiĭ, E. V. The index of equivariant elliptic operators over C^*-algebras. **89g:58198**
Witten, Edward Elliptic genera and quantum field theory. **89i:57017**

58G07 Relations with hyperfunctions

Andronikof, E. Sur les filtrations de Cohen-Macaulay des modules microdifférentiels. [On Cohen-Macaulay filtrations of microdifferential modules] **89d:58119**
Betinà, Kamel Caractérisation des connexions linéaires singulières régulières le long d'un diviseur à croisements normaux dans le cas de plusieurs variables. (English summary) [Characterization of singular linear connections regular along normal crossings in the several variables case] **89g:58190**
Bratti, Giuliano A generalization of the Komatsu-Kaneko cohomological theorem for the extension of solutions of partial differential equations to morphisms of sheaves of abelian groups. (Italian. English summary) **89b:58191**
van Doorn, M. G. M. (*with* van den Essen, A. R. P.) $\mathscr{D}_n$-modules with support on a curve. **89f:58125**
van den Essen, A. R. P. Modules with regular singularities over filtered rings and algebraic microlocalization. **89e:58110**
— *see also* **van Doorn, M. G. M., 89f:58125**
Gérard, R. On generalizations of the theorem of Briot-Bouquet. **89j:58120**

Heckman, G. J. (*with* Opdam, E. M.) Root systems and hypergeometric functions. I. **89b:58192a**
— Root systems and hypergeometric functions. II. **89b:58192b**
Kashiwara, Masaki Algebraic analytical research applied in mathematical physics. (Japanese) **89g:58191**
Kawai, Takahiro Systems of microdifferential equations of infinite order. **89b:58193**
Malgrange, B. Deformations of differential systems. II. **89j:58121**
Monteiro Fernandes, Teresa Problème de Cauchy pour les systèmes microdifférentiels. (English summary) [The Cauchy problem for microdifferential systems] **89b:58194**
— Propagation et constructibilité pour les systèmes microdifférentiels formels. (English summary) [Propagation and constructibility for formal microdifferential systems] **89b:58195**
Opdam, E. M. *see* **Heckman, G. J., 89b:58192a**
Schapira, P. (*with* Zampieri, Giuseppe) Regularity at the boundary for systems of microdifferential equations. **89c:58119**
— Propagation of analytic singularities up to nonsmooth boundary. **89b:58196**
Tajima, Shinichi A calculus of the tensor product of two holonomic systems with support on nonsingular plane curves. **89j:58122**
Tose, Nobuyuki 2nd microlocalisation and conical refraction. (French summary) **89d:58120**
— The 2-microlocal canonical form for a class of microdifferential equations and propagation of singularities. **89d:58121**
Uchikoshi, Keisuke Symbol theory of microlocal operators. **89k:58267**
Zampieri, Giuseppe *see* **Schapira, P., 89c:58119**
Zaslavskiĭ, A. I. Holonomic systems with regular singularities, and wave fronts of Feynman integrals. **89k:58268**

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Adjamagbo, Kossivi Synthèse de la théorie du déterminant sur un anneau finement filtré. [Synthesis of the theory of determinants over finely filtered rings] **89k:16003**
Aoki, Takashi (*with* Tajima, Shinichi) On a generalization of Bochner's tube theorem for generic CR-submanifolds. **89d:32034**
Beĭlinson, A. A. On the derived category of perverse sheaves. **89b:14027**
Björk, Jan-Erik Filtered Noetherian rings. **89c:16018**
Borel, Armand (*with* Grivel, Pierre-Paul; Kaup, B.; Haefliger, André; Malgrange, B.; Ehlers, F.) ★ Algebraic *D*-modules. **89g:32014**
Cauchon, Gérard Centraliseurs dans les anneaux de polynômes différentiels formels et leurs corps de fractions. [Centralizers in formal differential polynomial rings and their fraction fields] **89m:16005**
Ehlers, F. *see* **Borel, Armand; et al., 89g:32014**
Gel'fand, I. M. (*with* Retakh, V. S.; Serganova, V. V.) Generalized Airey functions, Schubert cells and Jordan groups. **89b:33018**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Equations of hypergeometric type and Newton polyhedra. **89j:22015**
Getzler, Ezra Cyclic homology and the Beĭlinson-Manin-Schechtman central extension. **89h:17014**
Grivel, Pierre-Paul *see* **Borel, Armand; et al., 89g:32014**
Haefliger, André *see* **Borel, Armand; et al., 89g:32014**
Hotta, R. Holonomic $\mathscr{D}$-modules in representation theory. **89g:22020**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 89j:22015**
Kaup, B. *see* **Borel, Armand; et al., 89g:32014**
Laurent, Yves Polygône de Newton et *b*-fonctions pour les modules microdifférentiels. [The Newton polygon and *b*-functions for microdifferential modules] **89k:58282**
Malgrange, B. *see* **Borel, Armand; et al., 89g:32014**
Muro, Masakazu Singular invariant tempered distributions on regular prehomogeneous vector spaces. **89d:22010**
Praagman, C. Stokes and Gevrey phenomena in relation to index theorems in the theory of meromorphic linear difference equations. **89c:39009**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 89b:33018**
de Roever, J. W. Peetre's theorem and generalized functions. **89m:35013**
Sabbah, C. *D*-modules et cycles évanescents (d'après B. Malgrange et M. Kashiwara). [*D*-modules and vanishing cycles (following B. Malgrange and M. Kashiwara)] **89b:32020**
— Polynômes de Bernstein-Sato à plusieurs variables. [Multivariable Bernstein-Sato polynomials] **89h:32024**
Serganova, V. V. *see* **Gel'fand, I. M.; et al., 89b:33018**
Tajima, Shinichi *see* **Aoki, Takashi, 89d:32034**
Vinogradov, A. M. Geometric singularities of solutions of nonlinear partial differential equations. **89b:58211**
Zampieri, Giuseppe Local existence at the boundary of analytic solutions of P.D.E. with analytic coefficients. (Italian summary) **89j:35009**
Zelevinskiĭ, A. V. *see* **Gel'fand, I. M.; et al., 89j:22015**

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Symposium:
  Outline of *D*-Modules ★ *D*-kagun gaisetsu. II. (Japanese) [An outline of *D*-modules. II] **89k:32021**

58G10 Index theory and fixed point theorems [see also 19K56, 46L80, 47Hxx]

Atiyah, Michael The logarithm of the Dedekind η-function. **89h:58177**
Bismut, Jean-Michel (*with* Vasserot, Éric) Comportement asymptotique de la torsion analytique associée aux puissances d'un fibré en droites positif. (English summary) [The asymptotic behavior of the analytic torsion associated with high powers of a positive line bundle] **89m:58188**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. I. Bott-Chern forms and analytic torsion. **89g:58192a**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. II. Direct images and Bott-Chern forms. **89g:58192b**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. III. Quillen metrics on holomorphic determinants. **89g:58192c**
— Transgressed Chern forms for Dirac operators. **89j:58123**
— (*with* Cheeger, Jeff) η-invariants and their adiabatic limits. **89k:58269**
Blau, Matthias Wess-Zumino terms and the geometry of the determinant line bundle. **89m:58189**
Booss, Bernhelm (*with* Wojciechowski, Krzysztof P.) Desuspension of splitting elliptic symbols. II. **89f:58126**
— (*with* Wojciechowski, Krzysztof P.) Addendum to: "Desuspension of splitting elliptic symbols. I, II" [Ann. Global Anal. Geom. 3 (1985), no. 3, 337–383; MR 87f:58148; ibid. 4 (1986), no. 3, 349–400]. **89b:58197**
Bost, J.-B. Conformal and holomorphic anomalies on Riemann surfaces and determinant line bundles. **89h:58178**
Bott, Raoul (*with* Taubes, Clifford Henry) On the rigidity theorems of Witten. **89k:58270**
Brüning, Jochen (*with* Seeley, Robert) An index theorem for first order regular singular operators. **89k:58271**
Cheeger, Jeff *see* **Bismut, Jean-Michel, 89k:58269**
Deundyak, V. M. The index of bielliptic operators on a product of compact manifolds. (Russian) **89k:58272**
Donnelly, Harold Local index theorem for families. **89j:58124**
Efremov, A. V. The Atiyah-Bott-Lefschetz formula for Hilbert bundles. **89k:58273**
El Soufi, A. (*with* Wang, Xue Ping) Some remarks on Witten's method. Poincaré-Hopf theorem and Atiyah-Bott formula. **89j:58125**
Freed, Daniel S. On determinant line bundles. (*see* **89m:81001**)
— $\mathbf{Z}/k$-manifolds and families of Dirac operators. **89f:58127**
Friedan, D. (*with* Windey, P.) Supersymmetric derivation of the Atiyah-Singer index and the chiral anomaly. **89b:58198**
Gilkey, Peter B. The eta invariant and the equivariant unitary bordism of spherical space form groups. **89g:58193**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**
Givental', A. B. Global properties of the Maslov index and Morse theory. **89k:58274**
Haskell, Peter Index theory of geometric Fredholm operators on varieties with isolated singularities. **89g:58194**
Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, Jonathan) The loop space $S^1 \to \mathbf{R}$ and supersymmetric quantum fields. **89i:58135**
Khimshiashvili, G. N. On the connection between the Fredholm index and analytic geometry. (Russian. English and Georgian summaries) **89e:58111**
Kusuoka, Shigeo Some remarks on Getzler's degree theorem. **89c:58120**
Lazarov, Connor A relation between index and exotic classes. **89m:58190**
Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 89i:58135**
Li, Keke Character-valued index theorems in supersymmetric string theories. **89h:58179**
Mavromatos, N. E. A note on the Atiyah-Singer index theorem for manifolds with totally antisymmetric *H* torsion. **89i:58136**
Mickelsson, Jouko On the geometry of Dirac determinant bundles in two dimensions. **89g:58195**
Morava, Jack (*with* Tamanoi, Hirotaka) A vanishing theorem for the conformal anomaly in dimension > 2. **89c:58121**
Müller, Werner[1] ★ Manifolds with cusps of rank one. **89g:58196**
Pekelis, D. I. A function that describes the boundaries of the change of dimension of operator kernels of Noether families. **89d:58122**
Reina, C. Spinors on compact Riemann surfaces. **89m:58191**
Roe, John ★ Elliptic operators, topology and asymptotic methods. **89j:58126**
Seeley, Robert *see* **Brüning, Jochen, 89k:58271**
Soulé, C. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**
Tamanoi, Hirotaka *see* **Morava, Jack, 89c:58121**
Taubes, Clifford Henry *see* **Bott, Raoul, 89k:58270**
Vaisman, Izu Holomorphic structures and connections on differentiable fibre bundles. **89j:58127**
Vasserot, Éric *see* **Bismut, Jean-Michel, 89m:58188**
Vishik, S. M. Analytic torsion of finite-dimensional local systems. **89k:58275**
Wang, Xue Ping *see* **El Soufi, A., 89j:58125**
Weitsman, Jonathan *see* **Jaffe, Arthur; et al., 89i:58135**
Windey, P. *see* **Friedan, D., 89b:58198**
Witten, Edward Topology and supersymmetric nonlinear sigma-models. **89m:58192**
Wojciechowski, Krzysztof P. *see* **Booss, Bernhelm, 89b:58197** *and* **89f:58126**
Yu, Yan Lin Local index theorem for Dirac operator. **89g:58197**
— Local index theorem for signature operators. **89j:58128**
Yu, Yue Supersymmetry and the Gauss-Bonnet-Chern theorem. (Chinese. English summary) **89c:58122**

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Alvarez-Gaumé, L. *see* **Della Pietra, Stephen; et al., 89b:58217**
Bourguignon, Jean-Pierre L'opérateur de Dirac et la géométrie riemannienne. [The Dirac operator and Riemannian geometry] **89h:58209**
Chang, Lay-Nam (*with* Liang, Yi Gao) Conservation of topological quantum numbers in energy bands. **89k:81204**
Cohen, Joel M. L^2-cohomology in topology, algebra, and analysis. **89h:58181**
Dai, Jian Hui *see* **Zha, Chao Zheng, 89j:81118**
David, François Louis Conformal field theories coupled to 2-D gravity in the conformal gauge. **89k:81138**
Della Pietra, Stephen (*with* Della Pietra, Vincent; Alvarez-Gaumé, L.) The chiral determinant and the eta invariant. **89b:58217**
Della Pietra, Vincent *see* **Della Pietra, Stephen; et al., 89b:58217**
D'Hoker, Eric (*with* Phong, D. H.) Geometry of quantum strings. (*see* **89m:81001**)
Dietz, Klaus P. (*with* Römer, H.) The role of the η-invariant for the description of electrons in a strong Coulomb field. **89f:81247**
Floer, Andreas An instanton-invariant for 3-manifolds. **89k:57028**
Forte, Stefano Spectral asymmetry and vacuum charge in three-dimensional closed and open space. **89f:81097**
Furuta, Mikio Perturbation of moduli spaces of self-dual connections. **89g:57019**

Ganoulis, N. (*with* Lazarides, G.) Generalized index theorem for string superconductivity in realistic models. **89k:81141**
Gao, Hong Bo Coadjoint orbit of the Virasoro group and the index theorem on Diff S^1/S^1. **89j:22041**
Gilkey, Peter B. The eta invariant and equivariant Spin^c bordism for spherical space form groups. **89k:57052**
Gorskiĭ, A. S. Berry's phase and the chiral anomaly. **89m:81143**
Hou, Bo Yu (*with* Zhang, Yao Zhong) Cohomology in connection space, family index theorem, and abelian gauge structure. **89a:58021**
Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, Jonathan) The two-dimensional, $N=2$ Wess-Zumino model on a cylinder. **89i:81062**
Ketov, S. V. Anomalies in 6-dimensional gauge theories. **89j:81143**
Killingback, T. P. Global anomalies, string theory and spacetime topology. **89i:53055**
Koh, I. G. (*with* Yu, Ming) Nonabelian bosonization in higher genus Riemann surfaces. **89h:81201**
Lazarides, G. *see* **Ganoulis, N., 89k:81141**
Léandre, Rémi Quantitative and geometric applications of the Malliavin calculus. **89k:58295**
Lee, Ronnie (*with* Miller, Edward Y.; Weintraub, Steven H.) Rochlin invariants, theta multipliers and holonomy. **89d:57034**
Lerche, W. Elliptic index and superstring effective actions. **89k:81157**
Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 89i:81062**
Liang, Yi Gao *see* **Chang, Lay-Nam, 89k:81204**
Lundell, Albert T. (*with* Tosa, Y.) Global anomalies and algebraic topology. **89f:81195**
Marshak, R. E. *see* **Okubo, Susumu; et al., 89g:53109**
Miller, Edward Y. *see* **Lee, Ronnie; et al., 89d:57034**
Minkowski, P. Note on the complex of mixed gravitational and Yang-Mills anomalies of spin $\frac{1}{2}$ fermions. **89e:81117**
Nelson, Philip C. Analytic structure of two-dimensional quantum field theories. (*see* **89m:81001**)
Ni, Guang Jiong *see* **Wang, Rong Tai, 89m:81167**
Okubo, Susumu (*with* Zhang, Huazhong; Tosa, Y.; Marshak, R. E.) SU(N) global gauge anomalies in even dimensions. **89g:53109**
— *see also* **Zhang, Huazhong; et al., 89d:81071** *and* **89m:81168**
O'Raifeartaigh, L. The anomaly-flux-index identity and its Euclidean extension. **89m:81156**
Panigrahi, Prasanta K. (*with* Roy, Shibaji; Scherer, Wolfgang) Canonical quantization of the interacting CP^1 nonlinear σ model with the Chern-Simons term. **89j:81109**
Parker, Thomas H. (*with* Rosenberg, Steven) Invariants of conformal Laplacians. **89e:58118**
Phong, D. H. *see* **D'Hoker, Eric, (89m:81001)**
Rempała, Jan A. On the Chern character of glued bundles. **89k:57054**
Roe, John An index theorem on open manifolds. I, II. **89a:58102**
Rōmer, H. *see* **Dietz, Klaus P., 89f:81247**
Rosenberg, Steven *see* **Parker, Thomas H., 89e:58118**
Roy, Shibaji *see* **Panigrahi, Prasanta K.; et al., 89j:81109**
Sarnak, P. Determinants of Laplacians. **89e:58116**
Scherer, Wolfgang *see* **Panigrahi, Prasanta K.; et al., 89j:81109**
Semenoff, Gordon W. Index theorems and superconducting cosmic strings. **89f:81211**
Singer, Isadore M. The η-invariant and the index. (*see* **89m:81001**)
Sitenko, Yu. A. Electron charge fractionization in a magnetic field in domains with boundaries. **89j:81251**
Slebarski, Stephen The Dirac operator on homogeneous spaces and representations of reductive Lie groups. III. **89f:22022**
Tosa, Y. *see* **Zhang, Huazhong; et al., 89d:81071; Lundell, Albert T., 89f:81195** *and* **Okubo, Susumu; et al., 89g:53109**
Wang, Rong Tai (*with* Ni, Guang Jiong) The chiral anomaly—from path integral method to differential geometric approach. **89m:81167**
Weintraub, Steven H. *see* **Lee, Ronnie; et al., 89d:57034**
Weitsman, Jonathan *see* **Jaffe, Arthur; et al., 89i:81062**
Witten, Edward Physics and geometry. **89i:81003**
— Elliptic genera and quantum field theory. **89i:57017**
Yu, Ming *see* **Koh, I. G., 89h:81201**
Yu, Yue An approximate solution of the SU(2) self-dual Yang-Mills field equations. (Chinese. English summary) **89a:53038**
Zha, Chao Zheng (*with* Dai, Jian Hui) Global anomalies and Green-Schwarz mechanism. (Chinese summary) **89j:81118**
Zhang, Huazhong (*with* Okubo, Susumu; Tosa, Y.) Global gauge anomalies for simple Lie algebras. **89d:81071**
— (*with* Okubo, Susumu) Global gauge anomaly and James numbers of Stiefel manifolds. **89m:81168**
— *see also* **Okubo, Susumu; et al., 89g:53109**
Zhang, Yao Zhong *see* **Hou, Bo Yu, 89a:58021**

58G11 Heat and other parabolic equation methods

Aoki, Kenichiro Heat kernels and super determinants of Laplace operators on super Riemann surfaces. **89j:58129**
Beals, Richard (*with* Stanton, Nancy K.) The heat equation for the $\overline{\partial}$-Neumann problem. I. **89b:58199**
— (*with* Stanton, Nancy K.) The heat equation for the $\overline{\partial}$-Neumann problem. II. **89e:58112**
Callias, C. The resolvent and the heat kernel for some singular boundary problems. **89m:58193**
Cheeger, Jeff η-invariants, the adiabatic approximation and conical singularities. I. The adiabatic approximation. **89c:58123**
Davies, E. B. (*with* Mandouvalos, N.) Heat kernel bounds on manifolds with cusps. **89b:58200**
— (*with* Mandouvalos, N.) Heat kernel bounds on hyperbolic space and Kleinian groups. **89i:58137**
Donnelly, Harold Essential spectrum and heat kernel. **89m:58194**
Elworthy, K. D. Brownian motion and harmonic forms. **89h:58180**
Epstein, C. L. (*with* Gage, Michael) The curve shortening flow. **89f:58128**
Gage, Michael *see* **Epstein, C. L., 89f:58128**
Jørgensen, Palle E. T. (*with* Klink, W. H.) Spectral transform for the sub-Laplacian on the Heisenberg group. **89k:58276**
Kajimoto, Hiroshi On the steady state of the heat conduction on a Riemannian symmetric space. **89m:58195**
Klink, W. H. *see* **Jørgensen, Palle E. T., 89k:58276**
Li, Peter (*with* Tam, Luen-Fai) Symmetric Green's functions on complete manifolds. **89f:58129**
Mandouvalos, N. *see* **Davies, E. B., 89b:58200** *and* **89i:58137**
Periwal, Vipul Character twists. **89j:58130**
Stanton, Nancy K. *see* **Beals, Richard, 89b:58199** *and* **89e:58112**
Tam, Luen-Fai *see* **Li, Peter, 89f:58129**
Uemura, Hideaki On a short time expansion of the fundamental solution of heat equations by the method of Wiener functionals. **89c:58124**
Varopoulos, Nicholas Th. Estimations du noyau de la chaleur sur une variété. (English summary) [Estimates for the heat kernel on a manifold] **89k:58277**
— Estimations gaussiennes du noyau de la chaleur sur les variétés. (English summary) [Gaussian estimates for the heat kernel on manifolds] **89k:58278**

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Akiyama, Hiroshi Geometric aspects of Malliavin's calculus on vector bundles. **89a:58117**
Baaquie, Belal E. Character functions of SU(3). **89j:22014**
Ben Arous, G. Noyau de la chaleur hypoelliptique et géométrie sous-riemannienne. [The hypoelliptic heat kernel and sub-Riemannian geometry] **89k:35054**
— Développement asymptotique du noyau de la chaleur hypoelliptique hors du cut-locus. [Asymptotic expansion of the hypoelliptic heat kernel outside of the cut-locus] **89k:60087**
Bérard, P. H. From vanishing theorems to estimating theorems: the Bochner technique revisited. **89i:58152**
Besson, G. A Kato type inequality for Riemannian submersions with totally geodesic fibers. **89b:58215**
Bismut, Jean-Michel (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. I. Bott-Chern forms and analytic torsion. **89g:58192a**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. II. Direct images and Bott-Chern forms. **89g:58192b**
— (*with* Gillet, H.; Soulé, C.) Analytic torsion and holomorphic determinant bundles. III. Quillen metrics on holomorphic determinants. **89g:58192c**
— Transgressed Chern forms for Dirac operators. **89j:58123**
Blau, Matthias Wess-Zumino terms and the geometry of the determinant line bundle. **89m:58189**
Branson, Thomas P. (*with* Ørsted, Bent) Conformal deformation and the heat operator. **89g:58214**
Cognola, Guido (*with* Zerbini, S.) Some physical applications of the heat kernel expansion. **89d:81090**
Coquereaux, Robert Comments about the geometry of nonlinear sigma models. **89f:81165**
Davies, E. B. Kernel estimates for functions of second order elliptic operators. **89c:35123**
Deligne, P. Le déterminant de la cohomologie. [The determinant of the cohomology] **89b:32038**
Donnelly, Harold Local index theorem for families. **89j:58124**
Gilkey, Peter B. Leading terms in the asymptotics of the heat equation. **89h:58199**
Gillet, H. *see* **Bismut, Jean-Michel; et al., 89g:58192a; 89g:58192b** *and* **89g:58192c**
Grayson, Matthew A. The heat equation shrinks embedded plane curves to round points. **89b:53005**
Hamilton, Richard S. The Ricci flow on surfaces. **89i:53029**
Ichihara, Kanji Comparison theorems for Brownian motions on Riemannian manifolds and their applications. **89c:58142**
Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, Jonathan) The two-dimensional, $N=2$ Wess-Zumino model on a cylinder. **89i:81062**
— (*with* Lesniewski, Andrzej) A priori estimates for $N=2$ Wess-Zumino models on a cylinder. **89i:81063**
Johnson, Gerald W. (*with* Skoug, David) Stability theorems for the Feynman integral. **89b:58042**
Jones, Christopher K. R. T. An instability mechanism for radially symmetric standing waves of a nonlinear Schrödinger equation. **89a:35184**
Jost, Jürgen ★ Nonlinear methods in Riemannian and Kählerian geometry. **89m:58049**
Keller, Georg (*with* Silvotti, Roberto) Quantum measure and Weyl anomaly of two-dimensional bosonic nonlinear σ-models. **89j:58020**
Kubo, Reijiro Geometry, heat equation and path integrals on the Poincaré upper half-plane. **89m:81057**
Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 89i:81062** *and* **89i:81063**
Makhan'kov, V. G. (*with* Myrsakulov, R.; Pashaev, O. K.) Gauge equivalence, supersymmetry and classical solutions of the ospu(1, 1/1) Heisenberg model and the nonlinear Schrödinger equation. **89g:81059**
Merkov, A. B. The heat equation on graphs. (Russian) **89d:35073**
Mok, Ngaiming The uniformization theorem for compact Kähler manifolds of nonnegative holomorphic bisectional curvature. **89d:53115**
Müller, Werner^1 ★ Manifolds with cusps of rank one. **89g:58196**
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Graffi, S. (*with* Nardini, Franco) A remark on the relation between the propagation of singularities for the Schrödinger equation and the KAM tori of the corresponding Hamiltonian system. (Italian. English summary) **89j:58115**
Grünbaum, F. Alberto Differential equations in the spectral parameter and multiphase similarity solutions. **89m:35193**
Grunewald, Fritz J. (*with* Elstrodt, Jürgen; Mennicke, Jens L.) Some remarks on discrete subgroups of $\mathrm{SL}_2(\mathbf{C})$. (Russian) **89c:22018**
Gureev, T. E. (*with* Safarov, Yu. G.) Exact spectral asymptotics for the Laplace operator on a manifold with periodic geodesics. (Russian) **89i:35106**
Guseĭnov, G. Sh. Asymptotic behavior of the spectral function and discrete spectrum of the Laplace-Beltrami operator on the fundamental domain of an n-dimensional Lobachevskii space. (Russian. English and Azerbaijani summaries) **89e:35118**
Harrell, Evans M., II On the extension of Ambarzumian's inverse spectral theorem to compact symmetric spaces. **89c:35129**
Helffer, Bernard (*with* Martinez, André) Comparaison entre les diverses notions de résonances. [Comparison among the various notions of resonance] **89h:35083**
— On a conjecture of P. Jorgensen and W. Klink. **89f:22011**
Ivriĭ, V. Ya. On the number of negative eigenvalues of Schrödinger operators with singular potentials. **89a:35154**
Karp, Leon *see* **Dodziuk, Jozef, 89h:58220**
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Khalilova, L. G. *see* **Vasil′ev, D. G., 89d:35134**
Khenkin, G. M. *see* **Novikov, R. G., 89d:35043**
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Knizhnik, V. G. Analytic fields on Riemannian surfaces. **89b:81198**
Konno, Reiji Remarks on positive eigenvalues of the Schrödinger-type operator on spherically symmetric Riemannian manifolds. **89i:35102**
Konoplich, R. V. Calculation of quantum corrections to nontrivial classical solutions by means of the zeta function. (Russian. English summary) **89i:81080**
Kühn, Thomas Eigenvalues of integral operators with smooth positive definite kernels. **89a:47046**
Kurokawa, Nobushige Parabolic components of zeta functions. **89m:11052**
Kuz′minov, V. I. *see* **Gol′dshteĭn, V. M.; et al., 89h:58007**
Lapidus, Michel L. (*with* Fleckinger, Jacqueline Pellé) Tambour fractal: vers une résolution de la conjecture de Weyl-Berry pour les valeurs propres du laplacien. (English summary) [Fractal drum: towards a resolution of the Weyl-Berry conjecture for the eigenvalues of the Laplacian] **89d:35133**
Lavrov, P. M. Regularization by means of the generalized zeta-function. (Russian) **89a:81137**
Lawler, Gregory F. (*with* Sokal, Alan D.) Bounds on the L^2 spectrum for Markov chains and Markov processes: a generalization of Cheeger's inequality. **89h:60105**
Lebeau, G. *see* **Bardos, Claude; et al., 89h:35252**
Lott, J. Real anomalies. **89h:58035**
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Martínez, Antonio On the spectrum of real hypersurfaces of quaternionic projective space. (Spanish. English summary) **89g:53082**
Maurin, Krzysztof Duality (polarity) in mathematics, physics and philosophy. **89m:22005**
Mazzeo, Rafe The Hodge cohomology of a conformally compact metric. **89i:58005**
Melin, A. Some mathematical problems in inverse potential scattering. **89g:35086**
Mennicke, Jens L. *see* **Grunewald, Fritz J.; et al., 89c:22018**
Müller, Werner^1 ★ Manifolds with cusps of rank one. **89g:58196**
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Nicaise, Serge Elliptic operators on elementary ramified spaces. **89g:31013**
Novikov, R. G. (*with* Khenkin, G. M.) The $\overline{\partial}$-equation in the multidimensional inverse scattering problem. (Russian) **89d:35043**
Ogiue, Koichi Recent topics in submanifold theory. (Japanese) **89d:53102**
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Patterson, S. J. On a lattice-point problem in hyperbolic space and related questions in spectral theory. **89g:11093**
Picken, R. F. Global anomalies and homotopy group cocycles. **89j:81112**
Pöschel, Jürgen (*with* Trubowitz, Eugene) ★ Inverse spectral theory. **89b:34061**
Ralston, James (*with* Trubowitz, Eugene) Isospectral sets for boundary value problems on the unit interval. **89m:34035**
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Reuter, M. Chiral anomaly of antisymmetric tensor fields. **89f:81208**
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Riordan, Frank A shooting approximation to wavefunctions with harmonic amplitude. **89a:81019**
Safarov, Yu. G. Asymptotics of the spectrum of a boundary value problem with periodic billiard trajectories. (Russian) **89m:35168**
— *see also* **Gureev, T. E., 89i:35106**
Schmit, C. *see* **Balazs, N. L.; et al., 89b:58171**
Schroeder, Viktor *see* **Burger, Marc, 89a:53046**
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Sjöstrand, J. Tunnel effects for semiclassical Schrödinger operators. **89c:35033**
— *see also* **Gérard, C., 89f:35057**
Sogge, C. D. On the convergence of Riesz means on compact manifolds. **89b:35126**
— Concerning the L^p norm of spectral clusters for second-order elliptic operators on compact manifolds. **89d:35131**
— *see also* **Christ, Michael, 89j:35096**
Sokal, Alan D. *see* **Lawler, Gregory F., 89h:60105**
Sonoda, Hidenori Functional determinants on punctured Riemann surfaces and their application to string theory. **89b:81222**
Stolz, S. Exotic structures on 4-manifolds detected by spectral invariants. **89j:57027**
Stoyanov, Luchezar N. Generic properties of periodic reflecting rays. **89k:58245**
Tahani, Taoufiq *see* **Chipot, Michel; et al., 89i:43007**
Tremblay, André-Marie Séguin (*with* Fourcade, Bertrand; Breton, Pierre) Famille d'exposants pour les propriétés électriques des fractals. (English summary) [Family of exponents for the electrical properties of fractals] **89b:82067**
Trubowitz, Eugene *see* **Pöschel, Jürgen, 89b:34061** *and* **Ralston, James, 89m:34035**
Vaĭnberg, B. R. Asymptotic expansion of the spectral function of elliptic operators in $\mathbf{R}^n$. (Russian. English summary) **89g:35085**
Vardi, Ilan Determinants of Laplacians and multiple gamma functions. **89g:33004**
Vasil′ev, D. G. (*with* Khalilova, L. G.) Asymptotic behavior of the spectrum of a differential operator on a surface of revolution. (Russian. English and Azerbaijani summaries) **89d:35134**
Volkov, A. Yu. The Liouville equation and the lattice sinh-Gordon model. (Russian. English summary) **89i:81101**
Voros, A. Spectral functions, special functions and the Selberg zeta function. **89b:58173**
— Unstable periodic orbits and semiclassical quantisation. **89h:81071**
— *see also* **Balazs, N. L.; et al., 89b:58171; Cartier, Pierre, 89m:11050** *and* (**89g:35002**)
de Wit, B. A new class of topological terms. (*see* **89f:81005**)
Xu, Dian Yan Calculation of a_3 coefficient of scalar field by point separation method. **89k:81114**
Yoshida, Eiji On an application of Zagier's method in the theory of Selberg's trace formula. **89m:11054**
— Selberg trace formula for a certain group generated by $\mathrm{PSL}(2, \mathbf{Z}[i])$ and a reflection. **89m:11055**

58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)

Arai, Hitoshi Harmonic analysis on negatively curved manifolds. I. **89d:58130**
Aviles, Patricio (*with* McOwen, Robert C.) Complete conformal metrics with negative scalar curvature in compact Riemannian manifolds. **89b:58224**
— (*with* McOwen, Robert C.) Conformal deformation to constant negative scalar curvature on noncompact Riemannian manifolds. **89b:58225**
Bakry, Dominique Étude des transformations de Riesz dans les variétés riemanniennes à courbure de Ricci minorée. [A study of Riesz transforms in Riemannian manifolds with minorized Ricci curvature] **89h:58208**

Bérard, P. H. From vanishing theorems to estimating theorems: the Bochner technique revisited. **89i:58152**
Bourguignon, Jean-Pierre L'opérateur de Dirac et la géométrie riemannienne. [The Dirac operator and Riemannian geometry] **89h:58209**
Branson, Thomas P. (*with* Ørsted, Bent) Conformal deformation and the heat operator. **89g:58214**
Brenier, Yann Décomposition polaire et réarrangement monotone des champs de vecteurs. (English summary) [Polar decomposition and increasing rearrangement of vector fields] **89b:58226**
Cherrier, P. Équations de Monge-Ampère sur les variétés hermitiennes compactes. (English summary) [Monge-Ampère equations on compact Hermitian manifolds] **89d:58131**
Eguchi, Tohru (*with* Ooguri, Hirosi) Differential equations for conformal characters in moduli space. **89c:58137**
El-Sabbagh, M. F. The Bäcklund problem and its solutions. **89m:58210**
Fulling, S. A. (*with* Kennedy, Gerard) A closed form for the symbol of the resolvent parametrix of an elliptic operator. **89g:58215**
Hai, Wen Hua The Liouville equation on an n-dimensional complex manifold. (Chinese. English summary) **89b:58227**
Kennedy, Gerard *see* **Fulling, S. A., 89g:58215**
Kifer, Yuri Bounded harmonic functions on nonamenable covers of compact manifolds. **89c:58138**
Lichnerowicz, André Les spineurs-twisteurs sur une variété spinorielle compacte. (English summary) [Twistor-spinors on a compact spin manifold] **89e:58117**
Majid, Shahn Liouville theorem for the Yang-Mills self-duality equations. **89i:58153**
McOwen, Robert C. *see* **Aviles, Patricio, 89b:58224** *and* **89b:58225**
Oliker, V. I. Remarks on projectively invariant nonlinear partial differential equations. **89g:58216**
Ooguri, Hirosi *see* **Eguchi, Tohru, 89c:58137**
Ørsted, Bent *see* **Branson, Thomas P., 89g:58214**
Parker, Thomas H. (*with* Rosenberg, Steven) Invariants of conformal Laplacians. **89e:58118**
Rosenberg, Steven *see* **Parker, Thomas H., 89e:58118**
Schoen, Richard M. Recent progress in geometric partial differential equations. **89g:58217**
— The existence of weak solutions with prescribed singular behavior for a conformally invariant scalar equation. **89e:58119**
— (*with* Yau, S.-T.) Conformally flat manifolds, Kleinian groups and scalar curvature. **89c:58139**
Yanovskiĭ, A. B. ★ Геометрический смысл порождающих операторов для обобщенной задачи Захарова-Шабата. (Russian) [Geometric interpretation of the generating operators for the generalized Zakharov-Shabat problem] **89c:58140a**
— ★ Геометрический смысл порождающих операторов для обобщенной задачи Захарова-Шабата. (Russian) [Geometric interpretation of the generating operators for the generalized Zakharov-Shabat problem] **89c:58140b**
Yau, S.-T. *see* **Schoen, Richard M., 89c:58139**
Zhang, Yao Zhong Covariant anomaly and cohomology in connection space. **89m:58211**
Zhou, Geng Qiang Linear growth harmonic functions on manifolds of nonnegative Ricci curvature. (Chinese. English summary) **89c:58141**

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Atiyah, Michael (*with* Hitchin, Nigel) ★ The geometry and dynamics of magnetic monopoles. **89k:53067**
Atkinson, Frederick V. (*with* Peletier, L. A.; Serrin, J.) Ground states for the prescribed mean curvature equation: the supercritical case. **89j:35051**
Aubin, Thierry Métrique d'Einstein-Kähler. [Kähler-Einstein metrics] **89e:53073**
Bahri, Abbas (*with* Coron, J.-M.) On a nonlinear elliptic equation involving the critical Sobolev exponent: the effect of the topology of the domain. **89c:35053**
Bakelman, Ilya J. Boundary value problems for n-dimensional Monge-Ampère equations and n-dimensional plasticity equations. I. **89i:35055**
— Geometric concepts and methods in nonlinear elliptic Euler-Lagrange equations. **89j:58016**
Benn, I. M. (*with* Tucker, R. W.) Clifford analysis of wave equations. **89d:81053**
Bérard, P. H. (*with* Besson, G.) On the number of bound states and estimates on some geometric invariants. **89m:58202**
Besson, G. *see* **Bérard, P. H., 89m:58202**
Bugir, M. K. An approach to the study of the oscillation of partial differential equations. (Russian. English summary) **89m:35017**
— *see also* **Dobrotvor, I. G., 89m:35018**
Caffarelli, Luis A. (*with* Nirenberg, L.; Spruck, Joel) On a form of Bernstein's theorem. **89j:53006**
Carfora, Mauro (*with* Marzuoli, Annalisa) Model geometries in the space of Riemannian structures and Hamilton's flow. **89c:58020**
Chang, Sun-Yung A. Extremal functions in a sharp form of Sobolev inequality. **89e:53060**
— (*with* Yang, Paul C.) Conformal deformation of metrics on S^2. **89b:53079**
Cheeger, Jeff η-invariants, the adiabatic approximation and conical singularities. I. The adiabatic approximation. **89c:58123**
Chen, Wen Xiong (*with* Ding, Wei Yue) A problem concerning the scalar curvature on S^2. **89j:53038**
Choquet-Bruhat, Yvonne (*with* Novello, Mario) Système conforme régulier pour les équations d'Einstein. (English summary) [Regular conformal system for Einstein equations] **89m:53073**
Coron, J.-M. *see* **Bahri, Abbas, 89c:35053**
Cranston, M. (*with* Mueller, C.) A review of recent and older results on the absolute continuity of harmonic measure. **89h:35088**
Davies, E. B. Kernel estimates for functions of second order elliptic operators. **89c:35123**
Ding, Wei Yue *see* **Chen, Wen Xiong, 89j:53038**
Dobrotvor, I. G. (*with* Bugir, M. K.) A condition for the oscillation of the solutions of fourth-order partial differential equations. (Russian. English summary) **89m:35018**
Duchamp, T. (*with* Kalka, Morris) Invariants of complex foliations and the Monge-Ampère equation. **89h:32020**
Eichhorn, Jürgen Sobolev-Räume, Einbettungssätze und Normungleichungen auf offenen Mannigfaltigkeiten. [Sobolev spaces, embedding theorems and norm inequalities on open manifolds] **89j:58012**
Gagnon, L. (*with* Winternitz, P.) Exact solutions of the spherical quintic nonlinear Schrödinger equation. **89k:35207**
Gao, Yi Hong String models and the geometry of the mapping space. (Chinese. English summary) **89j:81140**
Hitchin, Nigel *see* **Atiyah, Michael, 89k:53067**
Hong, Chong Wei Equation $\Delta u+K(x)e^{2u}=f(x)$ on $\mathbf{R}^2$ via stereographic projection. **89f:35073**
Ikeda, Nobuyuki Limit theorems for a class of random currents. **89b:60186**
Ivochkina, N. M. Solution of the Dirichlet problem for an equation of curvature of order m. **89f:35081**
Jerison, David (*with* Lee, John M.) Extremals for the Sobolev inequality on the Heisenberg group and the CR Yamabe problem. **89b:53063**
Kalka, Morris *see* **Duchamp, T., 89h:32020**
Kazdan, Jerry L. Unique continuation in geometry. **89k:35039**
Kiyohara, Kazuyoshi Riemannian metrics with periodic geodesic flows on projective spaces. **89a:53051**
Kobayashi, Osamu Scalar curvature of a metric with unit volume. **89a:53048**
Korevaar, Nicholas J. (*with* Simon, Leon M.) Continuity estimates for solutions to the prescribed-curvature Dirichlet problem. **89f:35082**
Kutev, N. *see* **Popivanov, P., 89i:53005**
Lee, John M. *see* **Jerison, David, 89b:53063**
Liao, Liang Yuan Global regularity of solutions of elliptic Monge-Ampère equations. **89i:35057**
Magri, F. (*with* Morosi, C.; Tondo, G.) Nijenhuis G-manifolds and Lenard bicomplexes: a new approach to KP systems. **89h:58079**
Marzuoli, Annalisa *see* **Carfora, Mauro, 89c:58020**
Modugno, Marco New results on the theory of connections: systems, overconnections and prolongations. **89c:53025**
Moore, Wayne (*with* Zund, J. D.) A note on Liouville's theorem in conformal geometry. **89j:53014**
Morosi, C. *see* **Magri, F.; et al., 89h:58079**
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Nagasaki, Ken'ichi Radial nonpositive solutions for nonlinear equation $\Delta u+|x|^l|u|^{p-1}u=0$ on the ball. **89g:35011**
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Novello, Mario *see* **Choquet-Bruhat, Yvonne, 89m:53073**
Osmolovskiĭ, V. G. Rigidity of a surface with respect to deformations that satisfy first-order nonlinear differential equations. (Russian) **89j:53052**
Patrizio, Giorgio Disques extrémaux de Kobayashi et équation de Monge-Ampère complexe. (English summary) [Extremal disks of Kobayashi and the complex Monge-Ampère equation] **89b:32033**
Peletier, L. A. *see* **Atkinson, Frederick V.; et al., 89j:35051**
Popivanov, P. (*with* Kutev, N.) On the solvability of equations with prescribed Gauss curvature changing its sign. **89i:53005**
Roe, John An index theorem on open manifolds. I, II. **89a:58102**
Saito, Takesi *see* **Zhao, Zhi Yong; et al., 89a:58012**
Schulz, Friedmar (*with* Williams, Graham H.) Barriers and existence results for a class of equations of mean curvature type. **89g:35039**
Serrin, J. *see* **Atkinson, Frederick V.; et al., 89j:35051**
Sibner, L. M. (*with* Sibner, R. J.) Singular Sobolev connections with holonomy. **89h:58033**
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Simon, Leon M. *see* **Korevaar, Nicholas J., 89f:35082**
Siu, Yum Tong ★ Lectures on Hermitian-Einstein metrics for stable bundles and Kähler-Einstein metrics. **89d:32020**
Spruck, Joel *see* **Caffarelli, Luis A.; et al., 89j:53006**
Sternheimer, Daniel Recent developments in nonlinear representations and evolution equations. **89j:58050**
Sugiyama, Kenichi Lower bounds of the essential spectrum of the Laplace-Beltrami operator and its application to complex geometry. **89k:32057**
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Tucker, R. W. *see* **Benn, I. M., 89d:81053**
Urbantke, H. On complex-valued scalar waves of the simply-progressive type. **89h:53045**
Urbas, John I. E. The oblique derivative problem for equations of Monge-Ampère type in two dimensions. **89b:35045**
— Global Hölder estimates for equations of Monge-Ampère type. **89b:35047**
— Regularity of generalized solutions of Monge-Ampère equations. **89b:35046**
Weisberger, William I. Conformal invariants for determinants of Laplacians on Riemann surfaces. **89c:58135**
Williams, Graham H. *see* **Schulz, Friedmar, 89g:35039**
Winternitz, P. *see* **Gagnon, L., 89k:35207**
Witten, Edward Topological quantum field theory. **89m:57037**
Wolfson, J. G. Gromov's compactness of pseudo-holomorphic curves and symplectic geometry. **89m:53058**
Wong, Pit-Mann Complex Monge-Ampère equation and related problems. **89c:32022**
Wu, Ke *see* **Zhao, Zhi Yong; et al., 89a:58012**
Yang, Paul C. *see* **Chang, Sun-Yung A., 89b:53079**
Yau, S.-T. Uniformization of geometric structures. **89k:53046**
Zelditch, Steven Uniform distribution of eigenfunctions on compact hyperbolic surfaces. **89d:58129**
Zhao, Zhi Yong (*with* Wu, Ke; Saito, Takesi) Superstring field theories on super-flag manifolds: superdiff S^1/S^1 and superdiff $S^1/\text{super}\,S^1$. **89a:58012**
Zund, J. D. *see* **Moore, Wayne, 89j:53014**

58G32 Diffusion processes and stochastic analysis on manifolds

Akiyama, Hiroshi Geometric aspects of Malliavin's calculus on vector bundles. **89a:58117**
Antonelli, P. L. (*with* Seymour, R. M.) Entropy production in stochastic Riemannian geometries with applications to chemical ecology. **89b:58228**

Brosamler, Gunnar A. Un théorème limite central presque sûr pour les mesures d'occupation du mouvement brownien sur une variété riemannienne compacte. (English summary) [An almost everywhere central limit theorem for the occupation measures of Brownian motion on a compact Riemannian manifold] **89k:58294**
Chavel, Isaac (*with* Feldman, Edgar A.; Rosen, Jay) Fluctuations of the Wiener sausage for surfaces. **89i:58154**
Duncan, T. E. Explicit solutions for an estimation problem in manifolds associated with Lie groups. **89j:58142**
Elworthy, K. D. Brownian motion and the ends of a manifold. **89i:58155**
Feldman, Edgar A. *see* **Chavel, Isaac; et al., 89i:58154**
Gliklikh, Yu. E. A curvilinear Itô integral with Riemannian parallel transport, and stochastic equations on manifolds. (Russian) **89a:58118**
Hakim-Dowek, M. (*with* Lépingle, D.) L'exponentielle stochastique des groupes de Lie. [The stochastic exponential of Lie groups] **89h:58210**
Ichihara, Kanji Comparison theorems for Brownian motions on Riemannian manifolds and their applications. **89c:58142**
Katznelson, Y. *see* **Malliavin, Paul, 89j:58144**
Kifer, Yuri Harmonic functions on Riemannian manifolds. **89i:58156**
Kōzaki, Masanori (*with* Ogura, Yukio) On the independence of exit time and exit position from small geodesic balls for Brownian motions on Riemannian manifolds. **89g:58218**
Léandre, Rémi Quantitative and geometric applications of the Malliavin calculus. **89k:58295**
Lépingle, D. *see* **Hakim-Dowek, M., 89h:58210**
Liao, Ming An independence property of Riemannian Brownian motions. **89j:58143**
— (*with* Pinsky, Mark) Stochastic parallel translation for Riemannian Brownian motion conditioned to hit a fixed point of a sphere. **89k:58296**
— Hitting distributions of small geodesic spheres. **89g:58219**
— Factorization of diffusions on fibre bundles. **89f:58138**
Malliavin, Paul (*with* Katznelson, Y.) Image des points critiques d'une application régulière. [Image of the critical points of a regular mapping] **89j:58144**
Mueller, C. A counterexample for Brownian motion on manifolds. **89k:58297**
Ogura, Yukio *see* **Kōzaki, Masanori, 89g:58218**
Pauwels, E. J. (*with* Rogers, L. C. G.) Skew-product decompositions of Brownian motions. **89i:58157**
Pinsky, Mark *see* **Liao, Ming, 89k:58296**
Pontier, Monique (*with* Szpirglas, J.) Uniqueness of the solutions of the filtering equation with observations on a Riemannian symmetric space. **89i:58158**
Rogers, L. C. G. *see* **Pauwels, E. J., 89i:58157**
Rosen, Jay *see* **Chavel, Isaac; et al., 89i:58154**
Seymour, R. M. *see* **Antonelli, P. L., 89b:58228**
Szpirglas, J. *see* **Pontier, Monique, 89i:58158**
Taylor, John Christopher The Iwasawa decomposition and the limiting behaviour of Brownian motion on a symmetric space of noncompact type. **89f:58139**
Wolansky, Gershon Elliptic perturbations of nonlinear oscillations in the presence of resonances. **89m:58212**

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Airault, H. (*with* Malliavin, Paul) Intégration géométrique sur l'espace de Wiener. (English summary) [Geometric integration on the Wiener space] **89f:60072**
Bakry, Dominique (*with* Emery, Michel) Propaganda for Γ_2. **89b:60182**
Beckner, William A generalized Poincaré inequality for Gaussian measures. **89m:42027**
Ben Arous, G. Développement asymptotique du noyau de la chaleur hypoelliptique hors du cut-locus. [Asymptotic expansion of the hypoelliptic heat kernel outside of the cut-locus] **89k:60087**
Bendikov, A. D. (*with* Pavlov, I. V.) Diffusion processes on the group T^∞ and elliptic equations of infinitely many variables. **89f:60092**
— Markov processes and partial differential equations on a group: the spatially homogeneous case. (Russian) **89f:60085**
Berger, Marc A. A Malliavin-type anticipative stochastic calculus. **89b:60131**
Bouleau, N. (*with* Hirsch, F. A.) Sur des propriétés du flot d'une équation différentielle stochastique. (English summary) [Remarks about the flow of a stochastic differential equation] **89a:60140**
Brosamler, Gunnar A. Brownian occupation measures on compact manifolds. **89b:60190**
Burdet, G. (*with* Perrin, Martine-Jacqueline) A geometric insight into the Fokker-Planck equation. **89k:53068**
Darling, R. W. R. Constructing stochastic flows: some examples. **89i:60123**
Davis, M. H. A. The Wiener space derivative for functionals of diffusions on manifolds. **89i:60116**
Duncan, T. E. A solvable stochastic control problem in spheres. **89f:93046**
— An estimation problem in compact Lie groups. **89e:60018**
Durran, Richard (*with* Truman, Aubrey) Brownian motion on hypersurfaces and computer simulation. **89j:60114**
Elworthy, K. D. Brownian motion and harmonic forms. **89h:58180**
Emery, Michel *see* **Bakry, Dominique, 89b:60182**
Ferrari, Pablo Augusto ★ Passeios aleatórios e redes elétricas. (Portuguese) [Random walks and electrical networks] **89k:60121**
Gliklikh, Yu. E. Geometric aspects of Nelson's stochastic quantization. (Russian) **89i:81026a**
— Geometrical aspects of Nelson's stochastic quantization. **89i:81026b**
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— (*with* Fialowski, A.) Cohomology of the infinite-dimensional Lie algebra L_1 with nontrivial coefficients. **89b:17016**

Fialowski, A. *see* **Feĭgin, B. L., 89b:17016**

Greenberg, Peter Pseudogroups of C^1 piecewise projective homeomorphisms. **89c:57039**

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Haefliger, André (*with* Salem, Éliane) Pseudogroupes d'holonomie des feuilletages riemanniens sur des variétés compactes 1-connexes. [Pseudogroups of holonomy of Riemannian foliations on simply connected compact manifolds] **89m:57027**

Kastor, David (*with* Martinec, Emil; Qiu, Zongan) Current algebra and conformal discrete series. **89b:81197**

Martinec, Emil *see* **Kastor, David; et al., 89b:81197**

Mizutani, Tadayoshi The Godbillon-Vey cocycle of Diff $\mathbf{R}^n$. **89c:57035**

Natsume, Toshikazu The C^1-invariance of the Godbillon-Vey map in analytical K-theory. **89a:57057**

Nemeschansky, Dennis *see* **Bagger, J. A.; et al., 89m:81130**

Ovid′ko, I. A. Topologically nontrivial loop monopoles. **89b:81139**

Qiu, Zongan *see* **Kastor, David; et al., 89b:81197**

Salem, Éliane *see* **Haefliger, André, 89m:57027**

Tondeur, Philippe ★ Foliations on Riemannian manifolds. **89e:53052**

Tsygan, B. L. *see* **Feĭgin, B. L., 89a:18017** *and* **89c:17020**

Vanžura, Jiří Cohomology of the Lie algebra of vector fields with constant divergence. **89b:17017**

Zuber, J.-B. *see* **Bagger, J. A.; et al., 89m:81130**

58H15 Deformations of structures [see also 32Gxx, 58G05]

Items with secondary classifications in 58H15

(Drinfel′d, V. G.) *see* **Verdier, Jean-Louis, 89f:17021**

Karasëv, M. V. *see* **Vorob′ev, Yu. M., 89c:58046**

Pommaret, J.-F. Thermodynamique et théorie des groupes. (English summary) [Thermodynamics and group theory] **89m:35015**

Smoller, J. (*with* Wasserman, A. G.) Bifurcation from symmetry. **89j:35025**

Verdier, Jean-Louis Groupes quantiques [d'après V. G. Drinfel′d]. [Quantum groups [after V. G. Drinfel′d]] **89f:17021**

Vorob′ev, Yu. M. (*with* Karasëv, M. V.) Corrections to the classical dynamics and to the quantization conditions arising in the deformation of Poisson brackets. **89c:58046**

Wasserman, A. G. *see* **Smoller, J., 89j:35025**

58H99 None of the above, but in this section

Items with secondary classifications in 58H99

Pommaret, J.-F. Explicit calculation of certain differential identities used in mathematical physics. **89b:53036**